

20000829.qrp v01_n928.qrl.20000829

Date: Tue, 29 Aug 2000 19:03:09 EDT

From: qrp-l@Lehigh.EDU

To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>

Subject: QRP-L digest 1928

QRP-L Digest 1928

Topics covered in this issue include:

- 1) [78292] RE: ARD
by "Hare, Ed, W1RFI" <w1rfi@arrl.org>
- 2) [78293] FOX: N1FN "on-the-road" kill
by Mike Gipe <mgipe@reliablemeters.com>
- 3) [78294] Re: OT: Antenna problem
by "Bob Tellefsen" <n6wg@earthlink.net>
- 4) [78295] Re: OT: ARD
by "Bob Tellefsen" <n6wg@earthlink.net>
- 5) [78296] Re: Low Noise Op Amps
by Henry Freedenberg <henryf@quartz.gly.fsu.edu>
- 6) [78297] Re: IC720a owners/tech manual
by Henry Freedenberg <henryf@quartz.gly.fsu.edu>
- 7) [78298] Neat Dipole HHistory
by "James R. Duffey" <jamesd1@flash.net>
- 8) [78299] RE: OT: ARD
by "Hare, Ed, W1RFI" <w1rfi@arrl.org>
- 9) [78300] RE: OT: Antenna problem
by "Hare, Ed, W1RFI" <w1rfi@arrl.org>
- 10) [78301] Summer Fox Hunt #15 - N1FN -
by Bruce Rattray <rattray@gpfn.sk.ca>
- 11) [78302] Re: Smallest antenna used to set KM/watt Record?
by K2UD@aol.com
- 12) [78303] Summer Fox Hunt #16 - NW7DX -
by Bruce Rattray <rattray@gpfn.sk.ca>
- 13) [78304] Morse Pro for the Palm/Visor
by "Rod, N0RC" <n0rc@qsl.net>
- 14) [78305] Re: Neat Dipole HHistory
by "George , W5YR" <w5yr@att.net>
- 15) [78306] Re: OT: ARD
by David Newkirk <dpnewkirk@home.com>
- 16) [78307] Re: ANT- Gap Challenger in the wind
by Nv4t@aol.com
- 17) [78308] Fox- Final log for hunt #16
by BenNW7DX@aol.com
- 18) [78309] Reminder--Crippled Fox Tues
by ARDUJENSKI@aol.com
- 19) [78310] More on Stub Decoupled Dipole

- by "James R. Duffey" <jamesd1@flash.net>
- 20) [78311] Stub Tuning Info
by ARDUJENSKI@aol.com
- 21) [78312] Fwd: QRP F/S
by Scott Bauer <w3cv@pcbank.net>
- 22) [78313] Re: OT: Antenna problem
by "M0CQG" <m0cqq@dial.pipex.com>
- 23) [78314] Re: NC20 AFA Xtal revisited
by Dan Tayloe <dtayloe@home.com>
- 24) [78315] Shack Cleaning
by BOB0B0B1@aol.com
- 25) [78316] Re: Diode Question
by MERRYPRANKSTER@cwcom.net
- 26) [78317] Re: OT: ARD
by "Bob Tellefsen" <n6wg@earthlink.net>
- 27) [78318] Thanks...and another question!
by "Jason Milldrum" <thecabal@mindspring.com>
- 28) [78319] Re: Diode Question
by "Tony Fishpool" <g4wif@btinternet.com>
- 29) [78320] Source for 30m crystals? 2nd posting...
by "Tom Scott" <TomRScott@Sterlink.net>
- 30) [78321] Re: Thanks...and another question!
by Pete Burbank <plburbank@kih.net>
- 31) [78322] Re: Thanks...and another question!
by Bill Lazure <n2tpa@juno.com>
- 32) [78323] Re: Oscilloscope bandwidth
by JS <wd1v@amsat.org>
- 33) [78324] Alinco DX70- advice on power consumption
by Vic Winton <Vic.Winton@trafford-press.com>
- 34) [78325] DL PA for the Sierra
by David M Kopacki <kf2ew@juno.com>
- 35) [78326] Noise Generator
by Tom and Roxy <zikot@erie.net>
- 36) [78327] Another great tool, the ESR
by Michael Neverdosky <mneverdosky@earthlink.net>
- 37) [78328] Michigan QRP Net Tonight
by ekwik@rtimail.com
- 38) [78329] Thermoelectric powered radio
by Greg Weinfurtner <weinfurt@oak.cats.ohiou.edu>
- 39) [78330] Re: Thanks...and another question!
by "John J. McDonough" <wb8rcr@arrl.net>
- 40) [78331] ANT- Gap Challenger in the wind THANKS!
by "steve" <sblary@bellsouth.net>
- 41) [78332] RE: Noise Generator
by "Kanalz, Karl" <Karl.Kanalz@allegiancetelecom.com>
- 42) [78333] Re: Noise Generator
by John R Kirby <n3aaz-qrp@juno.com>
- 43) [78334] RE: Thermoelectric powered radio

by "Kanalz, Karl" <Karl.Kanalz@allegiancetelecom.com>
44) [78335] Re: Noise generator
by Arjen Raateland <Arjen.Raateland@vyh.fi>
45) [78336] Re: Noise Generator (modulated)
by John R Kirby <n3aaz-qrp@juno.com>
46) [78337] SEARCG QRP-L/ARCHIVES/2000 "^subject:current consumption"
by Vic Winton <Vic.Winton@trafford-press.com>
47) [78338] German List members?
by wb2vuo@juno.com
48) [78339] Re: Thanks...and another question!
by "Cla KA0GKC" <ka0gkc@arrl.net>
49) [78340] Shack Cleaning
by BOB0B0B1@aol.com
50) [78341] Re: Thanks...and another question!
by "Cla KA0GKC" <ka0gkc@arrl.net>
51) [78342] Re: Noise Generator
by "Lau, Zack, W1VT" <zlau@arrl.org>
52) [78343] Re: Thermoelectric powered radio
by Bruce Muscolino <w6toy@erols.com>
53) [78344] PASS TRANSISTOR
by DONALD DORN <DDORN@CWIS.NET>
54) [78345] For Solar stuff . . .
by Richard Rood <fcs@juno.com>
55) [78346] RE: For Solar stuff . . .
by "Kevin Muenzler, WB5RUE" <wb5rue@arrl.net>
56) [78347] Construction: Kitchin Regen
by Michael C Boatright <ko4wx@mindspring.com>
57) [78348] Lost Data?
by Joe Mikuckis <k3chp@erols.com>
58) [78349] RE: Source for 30m crystals? 2nd posting...
by "Hare, Ed, W1RFI" <w1rfi@arrl.org>
59) [78350] Re: Short Vertical Optimization
by Bill Coleman AA4LR <aa4lr@radio.org>
60) [78351] RE: Lost Data?
by "Kevin Muenzler, WB5RUE" <wb5rue@arrl.net>
61) [78352] Argonaut Tests
by "Karl F. Larsen" <k5di@zianet.com>
62) [78353] Re: Lost Data?
by "Karl F. Larsen" <k5di@zianet.com>
63) [78354] OT Iridium closer to end
by "Brian" <brian@iquest.net>
64) [78355] RE: Lost Data?
by Bob Hightower <nk7m@extremezone.com>
65) [78356] OT - sorta
by M Goins <mgoins@usa.net>
66) [78357] RE: Lost Data?
by "Kevin Muenzler, WB5RUE" <wb5rue@arrl.net>
67) [78358] FW: Lost Data?

- by "Kevin Muenzler, WB5RUE" <wb5rue@arrl.net>
- 68) [78359] Re: Construction: Kitchin Regen
by "George Heron N2APB" <n2apb@erols.com>
- 69) [78360] RE: Argonaut Tests
by "Kanalz, Karl" <Karl.Kanalz@allegiancetelecom.com>
- 70) [78361] RE: OT Iridium closer to end
by "Kanalz, Karl" <Karl.Kanalz@allegiancetelecom.com>
- 71) [78362] Re: OT Iridium closer to end
by "Mike Yetsko" <myetsko@insydesw.com>
- 72) [78363] Re: Lost Data?
by "Damon Raphael" <w7md@azstarnet.com>
- 73) [78364] RE: OT Iridium closer to end
by "Kevin Muenzler, WB5RUE" <wb5rue@arrl.net>
- 74) [78365] QRP For Newbies (long post)
by "Tom Dufresne" <tdufres@hotmail.com>
- 75) [78366] Re: OT - sorta
by Bill Jones <kd7s@psnw.com>
- 76) [78367] Re: Lost Data?
by Chris Trask <ctrask@primenet.com>
- 77) [78368] RE: OT - sorta
by "Goveia, William P" <wgoveia@indiana.edu>
- 78) [78369] FW: OT - very (was sorta)
by "Goveia, William P" <wgoveia@indiana.edu>
- 79) [78370] WTB: QRP Classics
by "Ron White" <rwhite@netins.net>
- 80) [78371] Tentec goodies for sale
by "Mark Paley" <mpaley@wcnet.org>
- 81) [78372] Re: Antenna G/T
by "Lau, Zack, W1VT" <zlau@arrl.org>
- 82) [78373] System noise and very low noise receiver testing
by Tayloe Dan-P26412 <Dan.Tayloe@motorola.com>
- 83) [78374] Re Lost Data?
by Joe Mikuckis <k3chp@erols.com>
- 84) [78375] Re: Antenna G/T
by Luke Stras <stras@ecf.toronto.edu>
- 85) [78376] FW: Digest: Source for 30m crystals...
by "Tom Scott" <TomRScott@Sterlink.net>
- 86) [78377] Update on QRP Homebrew
by "TC Dufresne" <tdufres@radiks.net>
- 87) [78378] Re: Update on QRP Homebrew
by Bill Jones <kd7s@psnw.com>
- 88) [78379] Re: Update on QRP Homebrew
by "George , W5YR" <w5yr@att.net>
- 89) [78380] Re: Thermoelectric powered radio
by Stephen Trier <sct@po.cwru.edu>
- 90) [78381] New diagrams in PDF format on website
by "Ed Tanton" <n4xy@att.net>
- 91) [78382] QRP-L and the natural life cycle of mailing lists.

- by Quinn Farnes <quinn_farnes@yahoo.com>
- 92) [78383] Re: Thermoelectric powered radio
by "Chris W4YYZ" <w4yyz@tampabay.rr.com>
- 93) [78384] Need Heath Parts
by "John P. Cummins, Sr." <jpcummins@att.net>
- 94) [78385] Re: System noise and very low noise receiver testing
by Tayloe Dan-P26412 <Dan.Tayloe@motorola.com>
- 95) [78386] Fox- First Ever FOX DUEL - NW7DX / WJ1R #17 You're Invited!
by BenNW7DX@aol.com

Date: Mon, 28 Aug 2000 18:56:06 -0400
From: "Hare, Ed, W1RFI" <w1rfi@arrl.org>
To: "'radioruss@fuse.net'" <radioruss@fuse.net>, Low Power Amateur Radio
Discussion <grp-l@Lehigh.EDU>
Subject: [78292] RE: ARD
Message-ID: <125490A005E3D3118C9C00805FC743CCB2C3C9@mail.arrl.org>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"

Nothing official, but the bottom line is that it was getting a bit dated and the source was not providing updates or significant additional support.

Jon Bloom, jbbloom@arrl.org, can give a more comprehensive answer, I am sure.

73,
Ed Hare, W1RFI
ARRL Laboratory Supervisor
225 Main St
Newington, CT 06111
Tel: 860-594-0318
FAX: 860-594-0259
Internet: w1rfi@arrl.org
ARRL Web: <http://www.arrl.org>
ARRL Technical Information Service: <http://www.arrl.org/tis/>

> -----Original Message-----
> From: Russ Hines [mailto:radioruss@fuse.net]
> Sent: Monday, August 28, 2000 5:02 PM
> To: Low Power Amateur Radio Discussion
> Subject: OT: ARD
>
>
> Just called ARRL regarding their Radio Designer software, and

> the young lady
> who answered the phone told me it was discontinued.
>
> Anyone got a handle on this one? Kind of curious why. The
> young lady said
> she'll get back to me with an answer, but I thought I'd give
> a query here in
> the meantime.
>
> W1RFI, any info??
>
> Thanks.
>
> 73,
> Russ
> WB8ZCC
>

Date: Mon, 28 Aug 2000 16:05:48 -0700
From: Mike Gipe <mgipe@reliablemeters.com>
To: "QRP-L list (E-mail)" <qrp-l@Lehigh.edu>
Subject: [78293] FOX: N1FN "on-the-road" kill
Message-ID: <F988E2FF74F4D111A61F00A0C949D7A928EEA0@mission>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"

Gang --

Work and other commitments have kept me out of most of the foxhunts this summer <sob>, but I am determined to catch a few pelts to hang on the wall.

I was away from home for Thursday's foxhunt, but I was more determined than ever to catch a pelt. I was operating from my hotel room at the Asilomar Conference Center near the ocean in Pacific Grove, CA, near Monterey. Rig was a DSW20 running about 1.5 watts. Antenna was a W6MMA PW1 mini-vertical with two sections removed so it would fit under the ceiling. I clamped the antenna to the desk in my room on the first floor. Since I didn't have the correct coax adapter with me to use the RF1, I had to tune the antenna by ear. I estimate that the SWR was about 5:1. Paddles were the ultra-mini G3xxx paddles.

Marshall had a good signal which varied from 539 to 599. Honors for strongest signal on the band go to Doc, K0EVZ, who blew my ears out. Lots of strong hunters from the east coast were heard also.

Had to run off to dinner after the hunt, but before going to bed, I checked out 20 meters. DX from Australia and Europe was booming in. Didn't bust any pileups though. That would have been quite an accomplishment given the setup I was running. My wife took a picture which I will post on a website if anyone is interested.

Terrific job, Marshall! A record number of QSOs for the summer hunt! Thanks for the fun.

Mike Gipe K1MG/6 Monterey, CA

Date: Mon, 28 Aug 2000 16:56:08 -0700
From: "Bob Tellefsen" <n6wg@earthlink.net>
To: <qrp-1@Lehigh.EDU>
Subject: [78294] Re: OT: Antenna problem
Message-ID: <003701c0114b\$89e0bbc0\$3bd8fc9e@oemcomputer>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Mike

As an end fed antenna gets longer, the lobes of radiation tend to move in the direction of the wire. So a very long vertical wire would tend to radiate a hi angle signal, rather than towards the horizon like a half wave vertical.

73, Bob N6WG

Date: Mon, 28 Aug 2000 17:02:58 -0700
From: "Bob Tellefsen" <n6wg@earthlink.net>
To: <qrp-1@Lehigh.EDU>
Subject: [78295] Re: OT: ARD
Message-ID: <003b01c0114c\$7f516000\$3bd8fc9e@oemcomputer>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Rus, I've been an ARD user for a long time.
I have a guess as to why it might have been discontinued.

Two parts. First, it is a reduced version of a commercial product, whose name I don't recall at the moment. If that is discontinued, there is nothing to feed ARD.

Second, ARD is not a SPICE program. It works well for certain things, and I really love to do filter work with it. Not very easy to do active devices however. I prefer Electronic Workbench for circuits with active devices. So, this suggests it may not be selling well enough to bother with. Also, I don't believe they have a person dedicated to support the product the way they did when it was introduced.

73, Bob N6WG

Date: Mon, 28 Aug 2000 20:23:22 -0400
From: Henry Freedenberg <henryf@quartz.gly.fsu.edu>
To: jamesd1@flash.net
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [78296] Re: Low Noise Op Amps
Message-ID: <39AB0279.E67F3F19@quartz.gly.fsu.edu>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

My horizons have been expanded. Tnx to everybody for the info.
I should have been a EE

Henry

Date: Mon, 28 Aug 2000 20:26:18 -0400
From: Henry Freedenberg <henryf@quartz.gly.fsu.edu>
To: kc9nf@hotmail.com
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [78297] Re: IC720a owners/tech manual
Message-ID: <39AB0328.9B964751@quartz.gly.fsu.edu>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

I have both somewhere along with a 720a. Do you need something specific or do you want the entire manual?

Henry

Date: Mon, 28 Aug 2000 18:56:14 -0600
From: "James R. Duffey" <jamesd1@flash.net>
To: <ac7a@gci-net.com>, qrp-l <qrp-l@lehigh.edu>
Subject: [78298] Neat Dipole HHistory
Message-ID: <B5D0664E.2417%jamesd1@flash.net>
Mime-version: 1.0
Content-type: text/plain; charset="US-ASCII"
Content-transfer-encoding: 7bit

Thomas - I can shed a bit of light on the stub decoupled dipole.

The first reference I can find to the stub decoupled dipole was in QST for December 1960, "Multiband Antennas Using Decoupling Stubs" by William J. Lattin W4JRE. This article is reprinted on page 3-17 in the recent ARRL publication "More Wire Antenna Classics Vol.2" The first paragraph refers to a patent by Lattin for the antenna which is more than 10 years old, No. 2,535,298. So that would date the antenna from 1950 or so. I have not tried to locate the patent or any articles in the professional literature around that time.

I first became aware of the stub decoupled antenna from a Ham Radio article by W2EEY around 1971 or so. He presented a version which used 300 Ohm twinlead. Upon reading that article the operation of the Hy-Tower became obvious.

I also have read an old RadComm article about the antenna, but I can't find it now. It includes the WARC bands, so it must be post 1984 or so, and the last issue in my collection is from 1992, so that bounds it. Maybe one of our G friends has it handy. I believe that this article was also reprinted in the back technical column of a Communications Quarterly around 1992 or 1993.

The QST article is pretty good in explaining how the antenna works.

In addition to the Hy-gain Hy-Tower and Hy-Tower Jr., the Butternut HF-6V uses a decoupling stub on 15 M to isolate the top of the antenna and eliminate high angle radiation.

I think I have exhausted my useful knowledge about the antenna. I hope that this helps. - Dr. Megacycle

--

James R. Duffey KK6MC/5
30 Casa Loma Road
Cedar Crest, NM 87008

Date: Mon, 28 Aug 2000 20:57:16 -0400
From: "Hare, Ed, W1RFI" <w1rfi@arrl.org>
To: "'n6wg@earthlink.net'" <n6wg@earthlink.net>, Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [78299] RE: OT: ARD
Message-ID: <125490A005E3D3118C9C00805FC743CCB2C3CF@mail.arrl.org>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"

Hello, Bob,

> Also, I don't believe they have a person dedicated to support the
> product the way they did when it was introduced.

Actually, there are two people who can offer support. Dan Wolfgang, dwolfgang@arrl.org, can help with Windows/installation problems. Our own Zack Lau, w1vt@arrl.org, can help with design/applications programs. I expect that such support will be available for as long as Dan and Zack can remember the correct answers. :-)

73,
Ed Hare, W1RFI
ARRL Laboratory Supervisor
225 Main St
Newington, CT 06111
Tel: 860-594-0318
FAX: 860-594-0259
Internet: w1rfi@arrl.org
ARRL Web: <http://www.arrl.org>
ARRL Technical Information Service: <http://www.arrl.org/tis/>

> -----Original Message-----
> From: Bob Tellefsen [mailto:n6wg@earthlink.net]
> Sent: Monday, August 28, 2000 8:03 PM
> To: Low Power Amateur Radio Discussion
> Subject: Re: OT: ARD
>
>
> Rus, I've been an ARD user for a long time.
> I have a guess as to why it might have been discontinued.
> Two parts. First, it is a reduced version of a commercial

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> So, this suggests it may not be selling well enough to bother
> with. Also, I
> don't believe they have a person dedicated to support the
> product the way
> they did when it was introduced.
>
> 73, Bob N6WG
>

Date: Mon, 28 Aug 2000 21:12:44 -0400
From: "Hare, Ed, W1RFI" <w1rfi@arrl.org>
To: "'n6wg@earthlink.net'" <n6wg@earthlink.net>, Low Power Amateur Radio
Discussion <grp-l@Lehigh.EDU>
Subject: [78300] RE: OT: Antenna problem
Message-ID: <125490A005E3D3118C9C00805FC743CCB2C3D0@mail.arrl.org>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"

If memory serves, his wire was 10-11 meters long. This would be a full-wave on 10 meters. Although it will tend to radiate a bit more energy at higher angles on 10 meters than would a 5/8 wave or shorter antenna, I just ran and EZNEC model that indicated that at 10 degrees over average ground, a quarter-wave antenna would be about -4 dBi; the full-wave antenna is about -8.5 dBi, noticeable, but not dramatic.

The 10 meter long ground-mounted vertical showed the following feed-point impedances:

28 MHz: 1590-j605 ohms
24.9 MHz: 330+j517
21 MHz: 71+j28
18.1: 64-j300
14 MHz: 1184-j1189
10.1 MHz: 195+j446
7.0: 51+j26

3.5: 5-j482

It would appear to me that the tuner might have a hard time matching on 28 MHz, 14 MHz nad especially 3.5 MHz.

The pattern I just modeled on 28 MHz from a 1-wavelength vertical can be seen at:

<http://www.arrl.org/~ehare/qrp/1wave28MHz.jpg>

73,
Ed Hare, W1RFI
ARRL Laboratory Supervisor
225 Main St
Newington, CT 06111
Tel: 860-594-0318
FAX: 860-594-0259
Internet: w1rfi@arrl.org
ARRL Web: <http://www.arrl.org>
ARRL Technical Information Service: <http://www.arrl.org/tis/>

> -----Original Message-----
> From: Bob Tellefsen [<mailto:n6wg@earthlink.net>]
> Sent: Monday, August 28, 2000 7:56 PM
> To: Low Power Amateur Radio Discussion
> Subject: Re: OT: Antenna problem
>
>
> Mike
> As an end fed antenna gets longer, the lobes of radiation
> tend to move in
> the direction of the wire. So a very long vertical wire would tend to
> radiate a hi angle signal, rather than towards the horizon
> like a half wave
> vertical.
> 73, Bob N6WG
>

Date: Mon, 28 Aug 2000 19:20:15 -0600 (CST)
From: Bruce Rattray <rattray@gpfn.sk.ca>
To: QRP-Canada <qrp-canada@lists.gpfn.sk.ca>, Low Power Group <qrp-1@LeHigh.EDU>
Subject: [78301] Summer Fox Hunt #15 - N1FN -
Message-ID: <Pine.LNX.3.95.1000828191738.32305A-1000000@neale.gpfn.sk.ca>
MIME-Version: 1.0

Content-Type: TEXT/PLAIN; charset=US-ASCII

- TEAM COMPETITION -

(1) - SWAMP RATS: Pts=64 "Clean Sweep"

- K0EVZ - Doc <-
- NV4V - Pete <-
- AF4PS - Mac <-
- AJ4Y - Paul <-
- N1TP - Tom <-

(2) - QRP CHEESEHEADS: Pts=10

- N9AW - Jerry
- NK9G - Rick <-
- AE9K - Brian
- WA9TZE- Jim

(3) - RAIDERS OF THE LOST RF: Pts=28

- NA6E - Mary <-
- VE3FAL - Fred
- VA6RF - Earl <-
- VE5RC - Bruce <-
- VE6JAZ - Robert

(4) - THE FLYING PIGS: Pts=23

- KB9BVN - Brian <-
- N8IE - Dan <-
- W8DIZ - Diz
- WB6JBM - Rick
- AC7CF - Andrew

(5) - GANDALF the GREY:

- G0JJQ - Wayne

(6) - BIG DAWGS: Pts=67 "Clean Sweep"

- N1FN - Marshall <-
- N5TW - Tom <-
- WJ1R - Larry <-
- NW7DX - Ben <-
- N6WG - Bob <-

...72/73 - Bruce (VE5RC+VE5QRP) QRP-C#1 QRP-L#886 ARCI#9683 Zombie#272
A-1 Operator Club - 10/10# 944 - SOC #11 & #12 - Whiner#10 -
"QRP! How sweet it is!" "I am da man wit "DAH" paddle!"

Date: Mon, 28 Aug 2000 21:26:19 EDT
From: K2UD@aol.com
To: zlau@arrl.org
Cc: qrp-1@lehigh.edu
Subject: [78302] Re: Smallest antenna used to set KM/watt Record?
Message-ID: <63.a6dcebc.26dc6b3b@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

2 foot diameter halo on 6M for 570 miles. 250mw on Mizhuho rig.

72

Howard K2UD

Date: Mon, 28 Aug 2000 19:38:17 -0600 (CST)
From: Bruce Rattray <rattray@gpfn.sk.ca>
To: QRP-Canada <qrp-canada@lists.gpfn.sk.ca>, Low Power Group <qrp-1@LeHigh.EDU>
Subject: [78303] Summer Fox Hunt #16 - NW7DX -
Message-ID: <Pine.LNX.3.95.1000828193440.308A-100000@neale.gpfn.sk.ca>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

...only 2 points separate the first two Teams!!!...the last two hunts,
which will be "double-hunts" should be interesting to say the least eh?!
...good luck to all!

- TEAM COMPETITION -

(1) - SWAMP RATS: Pts=69 "Clean Sweep"

- K0EVZ - Doc <-
- NV4V - Pete <-
- AF4PS - Mac <-
- AJ4Y - Paul<-
- N1TP - Tom <-

(2) - QRP CHEESEHEADS: Pts=11

- N9AW - Jerry <-
- NK9G - Rick
- AE9K - Brian
- WA9TZE- Jim

(3) - RAIDERS OF THE LOST RF: Pts=29

- NA6E - Mary
- VE3FAL - Fred
- VA6RF - Earl
- VE5RC - Bruce <-
- VE6JAZ - Robert

(4) - THE FLYING PIGS: Pts=23

- KB9BVN - Brian
- N8IE - Dan
- W8DIZ - Diz
- WB6JBM - Rick
- AC7CF - Andrew

(5) - GANDALF the GREY:

- G0JJQ - Wayne

(6) - BIG DAWGS: Pts=71

- N1FN - Marshall <-
- N5TW - Tom <-
- WJ1R - Larry <-
- NW7DX - Ben <-
- N6WG - Bob

...72/73 - Bruce (VE5RC+VE5QRP) QRP-C#1 QRP-L#886 ARCI#9683 Zombie#272
 A-1 Operator Club - 10/10# 944 - SOC #11 & #12 - Whiner#10 -
 "QRP! How sweet it is!" "I am da man wit "DAH" paddle!"

Date: Mon, 28 Aug 2000 19:38:36 -0600
From: "Rod, N0RC" <n0rc@qsl.net>
To: qrp-1@Lehigh.EDU
Subject: [78304] Morse Pro for the Palm/Visor
Message-ID: <20000828193835.A19697@ganymede.frii.com>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii

Folks:

I'm writing to draw your attention to a new Morse Code tutorial program now available for the PalmPilot. The program is called Morse Pro and is available from PalmGear: www.palmgear.com. The direct link is:

<http://www.palmgear.com/software/showsoftware.cfm?sid=49557020000827224045&prodID=8722>

The program is in a very basic state at the moment it will do Text to Morse, Morse to Text, Can send a Palm Pilot memo pad, quiz you on various Morse letters, numbers...and a few other things.

The author is looking for feedback on how to make the program better. That is why it is released now with a simple set of functionality. What's there works well but more features are needed to make it more valuable. So please check it out and help the author spiff up his offering.

About the Author. Steve is a High-school student working part time in our department. He saw my "little radios" and got pretty excited about the idea of Ham Radio and QRP. He's not a Ham (yet anyway). Nor did he know much about Morse Code, with some help from me he developed Morse Pro, as you see it now, as a way to learn CW! If we keep guiding/encouraging him in the right direction I'm confident he'll get licensed and take to the air waves.

BTW: The \$5 shareware/donationware offering will be going toward equipment and supplies should get licensed. He's already picked out the SST as the rig he'd like to start with.

73, Rod N0RC

Date: Mon, 28 Aug 2000 21:02:30 -0500
From: "George , W5YR" <w5yr@att.net>
To: jamesd1@flash.net
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [78305] Re: Neat Dipole HIstory
Message-ID: <39AB19B6.B596D4AC@att.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Excellent summary, Jim.

FYI, the HF-9V adds a second stub for 6 meters.

72/73, George W5YR - the Yellow Rose of Texas
Fairview, TX 30 mi NE Dallas in Collin county QRP-L 1373
Amateur Radio W5YR, in the 54th year and it just keeps getting better!
R/C since 1964 - AMA 98452 Rving since 1972 Kachina #91900556
(12/99)

"James R. Duffey" wrote:

>

> Thomas - I can shed a bit of light on the stub decoupled dipole.

<snip>

> In addition to the Hy-gain Hy-Tower and Hy-Tower Jr., the Butternut HF-6V
> uses a decoupling stub on 15 M to isolate the top of the antenna and
> eliminate high angle radiation.

Date: Mon, 28 Aug 2000 22:17:42 -0400
From: David Newkirk <dpnewkirk@home.com>
To: qrp-l@Lehigh.EDU
Subject: [78306] Re: OT: ARD
Message-ID: <39AB1D46.DCE1922D@home.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

First, ARD is certainly **not** off-topic in a forum that includes
discussions on radio design and engineering -- which this forum does.

Bob Tellefsen wrote:

"Rus, I've been an ARD user for a long time.
I have a guess as to why it might have been discontinued.
Two parts. First, it is a reduced version of a commercial product,
whose
name I don't recall at the moment. If that is discontinued, there is
nothing to feed ARD."

That commercial product was Super-Compact 6.0 (for ARD 1.0) and
Super-Compact 6.5 (for ARD 1.5) by Compact Software of Paterson, New
Jersey. In 1997, Compact was bought by the Ansoft Corporation,
Pittsburgh, PA; I work for Ansoft as a technical writer in their Elmwood
Park, NJ, office. What was Super-Compact (and its nonlinear-analysis
superset, Microwave Harmonica) is now part of the Serenade Design
Environment, a 32-bit RF-design suite for the PC and several flavors of
UNIX. On the PC, the current Serenade release is 8.5; on UNIX, 8.6.

"Second, ARD is not a SPICE program. It works well for certain things,
and I
really love to do filter work with it. Not very easy to do active
devices
however. I prefer Electronic Workbench for circuits with active
devices.
So, this suggests it may not be selling well enough to bother with.
Also, I
don't believe they have a person dedicated to support the product the
way
they did when it was introduced."

That person would have been me. :-D I was instrumental in ARRL's effort
to bringing ARD to market, including writing a column related to it
(Exploring RF) for awhile in QST.

Bob, I think that what you mean by ARRL Radio Designer not being a SPICE
program is that it's not a nonlinear simulator; in particular, it's not
a *time-domain* nonlinear simulator, as SPICE is. And yes, active
devices were problematic in ARD in the sense that the parameters
required by its transistor and diode models neither fell right out of
transistor datasheets nor could be easily derived from existing SPICE
device parameters, which are relatively common.

So here's some good news: A free, feature-limited version of the
Serenade Design Environment, Serenade SV (for "Serenade Student
Version"), is now available via Internet download via the pages
beginning at the Web address

<http://www.ansoft.com/about/academics/sersv/index.cfm>

Among other goodies, Serenade SV includes schematic capture, harmonic-balance nonlinear simulation, a system-level simulator, an interactive Smith-Chart-driven matching synthesis tool, and a calculator the distributed transmission-line elements included in SV. It can handle up to four nonlinear device ports (so an SV nonlinear analysis can include four diodes [just right for a diode ring], or two transistors [such as the two-JFET mixers in many of our HF rigs], or a transistor and two diodes [such as a VCO with seriesed tuning diodes). Oscillator analysis is included, and the the simulator can do two tones, so you can simulate amplifier IMD! Unlike ARD, SV includes bipolar junction transistor, diode and FET models that can use SPICE parameters directly, or with a very few syntax tweaks.

As a very limited look into the beginnings of what hams can do with Serenade SV, have a look at the pages listed under the "--or not:" heading on a web page of mine at

<http://members.home.net/dpnewkirk/er/ermain.htm>

--analyses of the original NJQRP Fireball 40 amplifier, the driver and final amplifier of the Haywards' Ugly Weekender transmitter, and the Tuna Tin 2. I originally did all of those analyses with the full version of Serenade--and then my boss told me we'd be bringing out SV! I did quite a happy dance when I confirmed that with one or two tweaks (to bring them within SV's maximum-element limit of 25), all three circuits run fine in Serenade SV.

I hope you and others find Serenade SV useful. As with ARD, I'm excited to have played a part in making it available--and again, it's *absolutely free*!

More news when I have it, and 73,

Dave Newkirk, W9VES
dpnewkirk@home.com
<http://members.home.net/dpnewkirk/>

Date: Mon, 28 Aug 2000 22:25:46 EDT
From: Nv4t@aol.com
To: sblary@bellsouth.net, qrp-1@lehigh.edu
Subject: [78307] Re: ANT- Gap Challenger in the wind
Message-ID: <f9.246dad9.26dc792a@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

Any antenna that outlasts a good windstorm is just plain too small!!!!

Seriously, you better get a 2nd set of guys or your antenna will end up like my MFJ half wave after hurricane Opal-- i.e. like a piece of modern pipe sculpture!

72, Bill NV4T

Date: Mon, 28 Aug 2000 23:03:53 EDT
From: BenNW7DX@aol.com
To: qrp-1@lehigh.edu
Subject: [78308] Fox- Final log for hunt #16
Message-ID: <aa.9e17fbd.26dc8219@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

Hello,

Thanks again for the wonderful time! Below is my final log.

73,

Ben - NW7DX

See you all on Thursday!

=

2000 Summer Fox Hunt NW7DX

Band	Date	Time	QSO#	Call worked	Sent	Rcvd	Name	Qth	NR/PWR
----	----	----	----	-----	----	----	----	---	-----
20CW	27-Aug-00	20:00	1	K0EVZ	559	579	DOC	ND	861
20CW	27-Aug-00	20:01	2	WJ1R	559	559	LARRY	CO	2137
20CW	27-Aug-00	20:01	3	AF5Z	559	559	BOB	TX	984
20CW	27-Aug-00	20:02	4	W7ILW	559	559	HOWARD	AZ	2010
20CW	27-Aug-00	20:02	5	K5E0A	559	559	WAYNE	LA	5w
20CW	27-Aug-00	20:03	6	KB7N	559	559	MARK	WA	1w
20CW	27-Aug-00	20:04	7	NQ7X	559	559	FLOYD	AZ	343
20CW	27-Aug-00	20:04	8	K9IUA	559	559	KEVIN	ND	384

20CW	27-Aug-00	20:05	9	K5AAR	559	559	DON	OK	1512
20CW	27-Aug-00	20:05	10	N5TW	559	559	TOM	TX	1474
20CW	27-Aug-00	20:06	11	W5YR	559	559	GEO	TX	1373
20CW	27-Aug-00	20:06	12	K5DI	559	579	KARL	NM	2195
20CW	27-Aug-00	20:07	13	W0CH	559	559	DAVE	MO	618
20CW	27-Aug-00	20:08	14	VE5RC	559	559	BRUCE	SK	886
20CW	27-Aug-00	20:08	15	K1LOG/7	559	559	RICK	WA	5w
20CW	27-Aug-00	20:09	16	N5GLQ	559	569	MIKE	LA	5w
20CW	27-Aug-00	20:09	17	AE9F	559	579	DAN	CA	5w
20CW	27-Aug-00	20:10	18	AF4LQ	559	559	MIKE	KY	1395
20CW	27-Aug-00	20:11	19	K5OI	559	559	TIM	NM	73
20CW	27-Aug-00	20:12	20	W6ASH	559	559	WALT	CA	5w
20CW	27-Aug-00	20:13	21	WA7SPY	559	559	GLENN	CA	2214
20CW	27-Aug-00	20:14	22	W0RW	559	599	PAUL	CO	1284
20CW	27-Aug-00	20:15	23	KK5LD	559	599	DAN	TX	2052
20CW	27-Aug-00	20:15	24	K5JHP	559	559	BILL	TX	825
20CW	27-Aug-00	20:16	25	N9AW	559	559	JERRY	WI	1271
20CW	27-Aug-00	20:17	26	W4NJK	559	559	CHARLIE	CA	2075
20CW	27-Aug-00	20:18	27	W4EN	559	559	ED	NJ	2216
20CW	27-Aug-00	20:19	28	K7Q0	559	599	CHUCK	AZ	1
20CW	27-Aug-00	20:19	29	KA1DDB	559	559	MIKE	MI	2064
20CW	27-Aug-00	20:20	30	NV4V	559	539	PETE	KY	1721
20CW	27-Aug-00	20:21	31	K5LN	559	559	BILL	TX	1794

20CW	27-Aug-00	20:22	32	NK7M	559	449	BOB	AZ	271
20CW	27-Aug-00	20:23	33	W7HR	559	599	RANDY	WA	5w
20CW	27-Aug-00	20:24	34	NY5A	559	559	DON	CA	1517
20CW	27-Aug-00	20:24	35	N1FN	559	559	ET	CO	153
20CW	27-Aug-00	20:25	36	W3CD	559	599	BOB	CA	238
20CW	27-Aug-00	20:26	37	K5PSH	559	569	JERRY	TX	5w
20CW	27-Aug-00	20:27	38	W7/JR1NKN	559	589	ZUO	WA	3w
20CW	27-Aug-00	20:28	39	K6VNX	559	579	ARLEN	CA	5w
20CW	27-Aug-00	20:35	40	VE5QRP	559	559	BRUCE	SK	5w
20CW	27-Aug-00	20:37	41	KC1FB	559	559	JIM	CT	29
20CW	27-Aug-00	20:39	42	KM5VY	559	229	TOM	NM	1592
20CW	27-Aug-00	20:40	43	AA7EQ	559	559	BOB	AZ	2186
20CW	27-Aug-00	20:43	44	K5BGB	559	559	ROD	TX	2231
20CW	27-Aug-00	20:47	45	N0RC	559	559	ROD	CO	1764
20CW	27-Aug-00	20:52	46	W6BAB	559	589	HARVEY	CA	5w
20CW	27-Aug-00	20:58	47	VE7SL	559	339	STEVE	BC	761
20CW	27-Aug-00	20:59	48	K0CO	559	569	JACK	CO	618
20CW	27-Aug-00	21:04	49	K0YO	559	599	MIKE	CO	72
20CW	27-Aug-00	21:08	50	K1QM	559	449	JOEL	MA	337

2000 Summer Fox Hunt NW7DX

Band	Date	Time	QSO#	Call	worked	Sent	Rcvd	Name	Qth	NR/PWR
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
20CW	27-Aug-00	21:11	51	N9SE		559	449	MARTY	IN	1w

20CW	27-Aug-00	21:12	52	KG4BIG	559	559	KEN	KY	1974
20CW	27-Aug-00	21:13	53	W7MD	559	559	DAMON	AZ	2190
20CW	27-Aug-00	21:15	54	N5ZE	559	449	LEW	TX	2178
20CW	27-Aug-00	21:18	55	AD6JY	559	599	DAN	CA	2163
20CW	27-Aug-00	21:19	56	AJ4Y	559	339	PAUL	FL	1795
20CW	27-Aug-00	21:23	57	KI0RB	559	559	VINCE	CO	1283
20CW	27-Aug-00	21:29	58	WB8RCR	559	549	JOHN	MI	1446
20CW	27-Aug-00	21:30	59	KD6VIO	559	559	BOB	CA	5w
20CW	27-Aug-00	21:34	60	KF6RMK	559	599	BILL	CA	2w
20CW	27-Aug-00	21:36	61	VE5VA	559	599	PETE	SK	46
20CW	27-Aug-00	21:38	62	AG0T	559	559	TODD	ND	2211
20CW	27-Aug-00	21:42	63	N1TP	559	339	TOM	FL	1317
20CW	27-Aug-00	21:46	64	AJ4AY	559	339	JAY	AL	1372
20CW	27-Aug-00	21:49	65	AF4PS	559	229	MAC	FL	704
20CW	27-Aug-00	21:50	66	WS4S	559	539	CONARD	TN	993
20CW	27-Aug-00	21:51	67	N5IW	559	559	DAVE	TX	1718
20CW	27-Aug-00	21:53	68	W6CJ	559	579	JAY	CA	3w
20CW	27-Aug-00	21:54	69	WA0SXV	559	559	MIKE	NM	1w
20CW	27-Aug-00	21:55	70	KI0II	559	579	RON	CO	928
20CW	27-Aug-00	21:56	71	W7VP	559	559	BILL	WA	5W
20CW	27-Aug-00	xx:xx	72	NW7DX	559	559	BEN	WA	1892

Date: Mon, 28 Aug 2000 23:11:14 EDT
From: ARDUJENSKI@aol.com

To: qrp-1@lehigh.edu
Subject: [78309] Reminder--Crippled Fox Tues
Message-ID: <7d.9b03347.26dc83d2@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

Reminder that the Crippled Fox is scheduled for Tuesday nite
0000-0100Z Wed 30 Aug 7.135
0105-0200Z.....14.0501

The first 10 minutes I will try to focus on the 1-4 Zone calls

EXCHANGE: RST--SPC---NAME

This is the last scheduled Crippled Fox Run. If there appears to be interest I will be happy to continue. To add a little excitement for the last nite all stations making contact will be entered into a pool for a drawing and the winner will get a dozen homemade cookies (QRO type). If I work you both bands you call goes into the hat TWICE.

Alan KB7MBI

Date: Mon, 28 Aug 2000 21:32:39 -0600
From: "James R. Duffey" <jamesd1@flash.net>
To: thomas AC7A <ac7a@gci-net.com>, qrp-1 <qrp-1@lehigh.edu>
Subject: [78310] More on Stub Decoupled Dipole
Message-ID: <B5D08AF7.241E%jamesd1@flash.net>
Mime-version: 1.0
Content-type: text/plain; charset="US-ASCII"
Content-transfer-encoding: 7bit

Thomas - In my daughter's rush to get me off the computer, I forgot two items on the stub decoupled dipole.

I neglected to mention that I had such an antenna in 1979 and 1980 at my first QTH in LA. It was a 40 M dipole with a 10 M decoupling stub made from 450 Ohm ladder line. For reasons which are obscure to me today, I used a parallel dipole on 20 M for an all band 40 M to 10 M antenna. The 40 M dipole was used as a 3/2 wave dipole on 15 M. This was pre WARC. My old FT-101E tuned it fine as it had a pi network output. The whole thing was fed with RG-8. I worked a lot of DX with that antenna, but in those days near a solar peak with high flux, that is probably not saying much. None the less, I have fond memories of working countless JAs for several hours at a time in the evening on more than one occasion. When I moved, I replaced it with a G5RV, but that is another story.

I bought the materials for this antenna at the old Henry Radio on Olympic Blvd during my second weekend in LA. This historic store was housed in an old quanset hut and had lots of character. They moved to a nice new store on Bundy and went out of business. You can still see the old telephone pole they used for an antenna support with a cockeyed 2 M Yagi on the west side of the 405 freeway just north of the 10. I don't know why it isn't a national historic landmark. :^)

I am a bit smarter these days then I was in those days, and would probably do things differently now. I now realize that transmission lines are not the best candidates for traps in antennas. Even when we use them for their electrical isolating properties they are functioning as transmission lines. They will have a high SWR if not used at their design impedance. The high SWR will cause losses, which may well be higher than traps constructed with conventional inductors and capacitors. The impedance seen by the stub will vary with the band in operation. At the design frequency they will see an impedance that is the equivalent to the end impedance of two dipoles in series, which will probably be several thousand Ohms for wire dipoles. The impedance at the lowest frequency in operation will be lower, perhaps only a couple hundred ohms and teh losses will be less. Off the top of my head I would say that very high impedance stubs will probably be best.

With the large conductors used on the Hy-Tower losses are probably minimal.

>From time to time I think about putting up a new antenna that is stub decoupled, but I have not found the right application yet.

I hope that this helps. - Dr. Megacycle KK6MC/5
James R. Duffey KK6MC/5
30 Casa Loma Road
Cedar Crest, NM 87008

Date: Mon, 28 Aug 2000 23:56:56 EDT
From: ARDUJENSKI@aol.com
To: qrp-l@lehigh.edu
Subject: [78311] Stub Tuning Info
Message-ID: <69.9cce8b8.26dc8e88@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

LQQKING for some real theory on stub tuning?
Try <http://chips.uvigo.es/erasmus/ShuntStubs.html>

Alan KB7MBI

ps make sure you look at the related site info

Date: Tue, 29 Aug 2000 00:11:21 -0400
From: Scott Bauer <w3cv@pcbank.net>
To: qrp-1@lehigh.EDU
Subject: [78312] Fwd: QRP F/S
Message-ID: <4.2.0.58.20000829001022.00970570@mail.pcbank.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

>>>
>>> Hello gang,
>>>
>>> I am cleaning out my shack. QRP was fun and still is, but I want
>>>to buy something new. Change is good and needed.
>>>
>>>The following items are for sale and in "as new condition".
>>>The price includes shipping in the U.S.A. via Priority mail. All items
>>>work as specified and are in mint condition unless noted.
>>>
>>> Everything is on first come, first served basis. I would appreciate
>>>money orders only since I have so much to sell.
>>>
>>>S&S ARK-20 20 meter CW XCVR with built in keyer. Has front firing
>>>speaker, RIT, audio filter. Heavy extruded aluminum cabinet.
>>> Aligned and tested at S&S Labs.
>>>\$150.00 shipped
>>>
>>>S&S ARK-30, 30 meter CW XCVR with built in keyer. Has front firing
>>>speaker, RIT, audio filter. Heavy extruded aluminum cabinet.
>>> Aligned and tested at S&S Labs.
>>>\$150.00 shipped
>>>
>>>S&S ARK-40, 40 meter CW XCVR with built in keyer. Has front firing
>>>speaker, RIT, audio filter. Heavy extruded aluminum cabinet.
>>> Aligned and tested at S&S Labs. Small
>>>nick on the upper right front panel.
>>>\$150.00 shipped
>>>
>>> S&S TAC-1, 40 meter CW XCVR with built in keyer, digital display,
>>>RIT, audio filter and a variable power output mod done at S&S Labs.
>>>Factory cabinet.
>>>Aligned and tested at S&S Labs.

>>>\$150.00 shipped
>>>
>>> S&S TAC-1, 80 meter CW XCVR with built in keyer, digital display,
>>>RIT, audio filter and a variable power output mod done at S&S Labs.
>>>Factory cabinet.
>>>Aligned and tested at S&S Labs.
>>>\$150.00 shipped
>>>
>>> Emtech NW 30 meter CW XCVR. Has audio filter, variable bandwidth
>>>and RIT. Factory cabinet.
>>>\$80.00 shipped
>>>
>>>Emtech ZM-1, Z-match antenna tuner
>>>\$35.00 shipped
>>>
>>>OHR WM-1 QRP wattmeter. Very light scratch on right side of cabinet.
>>>\$50.00 shipped
>>>
>>>LDG QRP automatic antenna tuner.
>>>\$75.00 shipped
>>>
>>>Nor Cal 20, 20 meter XCVR cabinet un painted, no knobs.
>>>\$60.00 shipped
>>>
>>>St. Louis Tuner from Nor Cal. Works but never modified. Cabinet painted
>>>and has some nicks and scratches and chips.
>>>\$40.00 shipped.
>>> All have manuals.
>>>
>>> Scott Bauer, W3CV
>
>
>
> Scott

Scott

Date: Tue, 29 Aug 2000 05:21:06 +0100
From: "M0CQG" <m0cqg@dial.pipex.com>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [78313] Re: OT: Antenna problem
Message-ID: <005101c01170\$b1dc7b80\$a66a45c2@UKsolsf56>
MIME-Version: 1.0
Content-Type: text/plain;

charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Many thanks to all those who responded via the list and also via e-mail - yet again, prompt and friendly help from the group. Very much appreciated!

73

Mike
M0CQG

Date: Mon, 28 Aug 2000 21:42:25 -0700
From: Dan Tayloe <dtayloe@home.com>
To: n0rc@qsl.net, qrp-l <qrp-l@Lehigh.EDU>
Subject: [78314] Re: NC20 AFA Xtal revisited
Message-ID: <39AB3F31.2DB346AC@home.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Rod:

I think these are rated at 10 uW. I don't know the series resistance of the crystal, but am guessing about 200.

$P = V^2/2R$, so V is roughly 0.05v peak or 0.1v pk-pk. This is 50x down from a 5v peak to peak driving signal, so $50 \times 200 = 10K$. This should be a rough engineering approximation if you are having trouble with 100K.

Any way you look at it, it is ****much**** better than having no resistor!

- Dan Tayloe, N7VE; Phoenix, Az; Az ScQRPions

Date: Tue, 29 Aug 2000 00:59:40 EDT
From: BOBOBOB1@aol.com
To: qrp-l@lehigh.edu (Low Power Amateur Radio Discussion)
Subject: [78315] Shack Cleaning
Message-ID: <46.9f4f4e3.26dc9d3c@aol.com>
MIME-Version: 1.0

Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

- 1.) ANC-4 JPS Electrical Noise Reduction Unit
(Used once) \$140.00

- 2.) NIR-12 JPS Professional Dual DSP
Noise /Interference Reduction Unit \$265.00
(Used twice)

- 3.) Norcal QRP Paddle Kit: \$25.00
- 4.) Rainbow tuner Kit \$15.00
- 5.) Wilderness Radio: Sierra with 20 and 40
meter modules with KC-2 Keyer counter/Meter
with KC-2 front panel
and the Buzz Not Noise Blanker
These items are all Never built Kits. \$280.00

- (Prefer to sell items 3, 4 and 5 as a package...\$300.00)

- 6.) Assembled St. Louis Vertical with \$75.00
Fishing pole and 10-40
(W6MMA) coil...

All priced quoted are plus shipping.
Bob Gorman
WA1SCH

Date: Tue, 29 Aug 2000 05:26:16 +0100
From: MERRYPRANKSTER@cwcom.net
To: <merryprankster@cwcom.net>, "Low Power Amateur Radio Discussion" <qrp-
l@lehigh.edu>
Subject: [78316] Re: Diode Question
Message-ID: <008001c01171\$494b9280\$3c012cc3@houseqrx7neuap>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Bob here, thanks all, for the info on the diodes its going to be quite a job testing 20 diodes for a matched pair. I wonder if they will let me take my meter and sit in Maplins for a morning picking the ones I want.. Thanks a lot chaps, for the very useful info. I am planing to build the SWR / Power meter, but also want to have a go at a diode modulator / demodulator, rings. (I think they come in rings) for an USB PSK rig. I have an MC1496 chip but, I fancy getting into the bones of a circuit, as in building from discreet

components first before I get the chips out..
Hopefully then I will have an idea of what's inside these chip things.
I have a feeling from the taste, its not 100% potato..Thanks again Bob

Date: Mon, 28 Aug 2000 22:53:53 -0700
From: "Bob Tellefsen" <n6wg@earthlink.net>
To: <qrp-1@Lehigh.EDU>
Subject: [78317] Re: OT: ARD
Message-ID: <000301c0117d\$86dba660\$cfd9fc9e@oemcomputer>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Dave

Thanks much for your post about Serenade SV. I'll have to check it out,
since the price is certainly right.

When I said ARD was not a SPICE program, I meant that SPICE netlists could
not be run on it. You would have to rewrite them in ARD syntax, and none of
the SPICE component models would apply to ARD.

I sure remember your Exploring RF columns, now that you remind me. They
were a great service to new users at the time. Sure wish they could have
continued.

Great hearing from you, and thanks again for the info.

73, Bob N6WG

Date: Mon, 28 Aug 2000 23:35:57 -0700
From: "Jason Milldrum" <thecabal@mindspring.com>
To: "qrp-1" <qrp-1@lehigh.edu>
Subject: [78318] Thanks...and another question!
Message-ID: <NEBBKHNMEDODBDLOKEPJIELOCDAA.thecabal@mindspring.com>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Thanks to those who took the time out to answer my air-variable capacitor
question. I got 4 different useful ideas...it just goes to show the

ingenuity of the QRP community.

Now to my next question. I'm learning radio and electronics all on my own, and sometimes it's hard to find out certain info. I really studied hard for my Extra test...read the ARRL book "Understanding Basic Electronics" and also looked up some of the relevant sections in the ARRL Handbook. I think that I've got a grasp of the basics, but I can't really find where to apply this info into practical examples. It's hard for me to just memorize equations and laws with no real framework to use it in. I, along with other people I'm sure, learn best when I can relate my theory with real-world examples. The question is, where can I find the information to help me bridge the gap between theory and practical application? Are there any good online courses or textbooks available? I know that the ARRL Handbook has some of that information, but I need it broken down into smaller chunks that are well-explained. Any help on this matter would be **greatly** appreciated.

Thanks and 72,
Jason

Jason Milldrum, KD7JKI
Salem, Oregon, USA
ARRL | QRP-L #2209 | FPQRP #118 | hamradiochat
Web: <http://thecabal.home.mindspring.com>

Join the hamradiochat discussion group:
<http://thecabal.home.mindspring.com/kd7jki/hamradiochat/>

Date: Tue, 29 Aug 2000 07:31:33 +0100
From: "Tony Fishpool" <g4wif@btinternet.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [78319] Re: Diode Question
Message-ID: <007c01c01183\$8a1fc620\$7b62063e@p200>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

A year or two back, Richard Brittingham - W4MCD sent me the diagram of his "Octopus" tester and I published it in the technical section of the GQRP club website (www.gqrp.com). Although I've never built one, I do have and use my commercially build "Tracker" from a company called Huntron. In Richard's article, he described oscilloscope traces which have "merit". I didn't edit the article at all, but I would have

preferred the term signature, as each type of component has a different one. Diodes have a sort of dogleg signature - capacitors have an oval signature and you can even tell when one is getting leaky if you know what you are looking for. It's a very useful piece of test gear and wouldn't be without mine.

72/3

Tony - G4WIF/K4WIF

----- Original Message -----

From: "Mike Yetsko" <myetsko@insydesw.com>

> Well, a LOT of HAMS have these old 'Cathode Ray Oscillographs'
> and they are GREAT for doing that. All it takes is a transformer
> and a few resistors... In fact, one of the first 'tools' I ever
build
> was an 'octopus'.
<snip>

Date: Tue, 29 Aug 2000 00:01:05 -0700
From: "Tom Scott" <TomRScott@Sterlink.net>
To: "'qrp-l Reflector'" <qrp-l@Lehigh.EDU>
Subject: [78320] Source for 30m crystals? 2nd posting...
Message-ID: <000601c01186\$ebe7c9e0\$7e100f0a@wyle.com>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

I hate to be a nuisance, but I'm sure someone here can help Mike find some crystals for his QRP projects, let me try again...

I am posting this for a friend, Mike Clausen (Solderman) - KK7GG who doesn't have internet access at home and whose employer frowns on list subscriptions on company mail. Please reply off list to me and I will digest and forward to him any relevant answers.

He is looking for some HC49U fundamental mode crystals for QRP projects at 10.110 MHz and 10.106 MHz.

Any and all suggested sources are welcome.

Thanks! 72

- Tom Scott, eEngineering Manager, eBusiness Group

//_/_/_/_/_/_/_/_/_/_/_/_/_/
Wyle Electronics
10300 SW Nimbus Ave #PB
Portland, OR 97223
503-603-1931 - Tel
503-684-6620 - Fax
503-703-2032 -- Cell
KD7DMH
//_/_/_/_/_/_/_/_/_/_/_/_/_/

Date: Tue, 29 Aug 2000 03:23:18 -0400
From: Pete Burbank <plburbank@kih.net>
To: <qrp-1@Lehigh.EDU>
Subject: [78321] Re: Thanks...and another question!
Message-ID: <3.0.32.20000829032031.00770914@kih.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

At 11:35 PM 8/28/00 -0700, you wrote:
>Thanks to those who took the time out to answer my air-variable capacitor
>question. I got 4 different useful ideas...it just goes to show the
>ingenuity of the QRP community.
>
>Now to my next question. I'm learning radio and electronics all on my own,
>and sometimes it's hard to find out certain info. I really studied hard for
>my Extra test...read the ARRL book "Understanding Basic Electronics"

Jason,
Welcome to Ham Radio. It sounds like you have put forth a lot of
effort on the mental front. My suggestion would be to select
a project that interests you and get your hands busy. In the
meantime you can gather a truckload of Junque and some test
gear. Rock and Roll
73 Pete NV4V

Date: Tue, 29 Aug 2000 03:38:32 -0400
From: Bill Lazure <n2tpa@juno.com>
To: qrp-1@lehigh.edu
Subject: [78322] Re: Thanks...and another question!
Message-ID: <20000829.034251.-157109.2.n2tpa@juno.com>
MIME-Version: 1.0
Content-Type: text/plain

Content-Transfer-Encoding: 7bit

Jason,

This may help kill two birds with one stone!! You learn electronics, and the technical discussions pick up on the reflector. You have an audience of thousands available to answer any question you could ask.

Fire away. What's the first question?

73,

Bill

W2EB

Syracuse, NY

"Jason Milldrum" writes:

>...The question is, where can I find the information to help
> me
> bridge the gap between theory and practical application? Are there
> any good
> online courses or textbooks available?
>
> Thanks and 72,
> Jason
>

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<http://dl.www.juno.com/get/tagj>.

Date: Tue, 29 Aug 2000 04:19:56 -0400

From: JS <wd1v@amsat.org>

To: qrp-l@Lehigh.EDU

Subject: [78323] Re: Oscilloscope bandwidth

Message-ID: <p04310100b5d121bce3f7@[24.91.168.153]>

Mime-Version: 1.0

Content-Type: text/plain; charset="us-ascii" ; format="flowed"

Analog Bandwidth (BW)

BW is the amount your signal will be attenuated by the oscilloscope's front end section. This includes from the input connector, preamplifier, track and hold circuitry,

and ADC and memory components - specified at the -3 dB point
- as a function of input frequency.

Remember that BW ratings are at the input to the amplifier
& that your probes might also attenuate your signals. If
you are looking at signals > 50 MHz, try an active FET
probe.

Remember that -3 dB is down in amplitude by almost
30%. You probably don't want a 30% error in your amplitude
measurements. Consider the highest BW you need to measure
for best accuracy.

Caution!

Many oscilloscopes have BW ratings that reflect their
best performance but only in certain voltage ranges.

Digital Bandwidth (BW)

You probably want at least 5 sample points on the highest
frequency cycle you expect to digitize. Single shot capture
then suggests a 1 GS/s scope can look at waveforms up to
about 200 MHz.

Look out for short record length oscilloscopes that can only
sample at maximum rates for short periods of time.

Application	Timebase	Useable BW 32k Mem	Useable BW 8M Memory
Ethernet 10baseT	10 us/div	2.5 MHz	500 MHz
PLL Dynamic Resp.	100 us/div	250 kHz	500 MHz
CDMA-Qualcom	200 us/div	125 kHz	250 MHz
Video & Imaging	2 ms/div	12.5 kHz	25 MHz
Switcher Power	100 ms/div	250 Hz	625 kHz

Ideally, the sample rate value should be displayed on
screen all the time. Be certain you can sample fast enough
in real time (single shot) mode on all channels so you can
record without aliasing.

Another point of confusion. Sample rates specified
for repetitive vs. single shot acquisitions. Real-time
refers to single shot. RIS refers to random interleaved
sampling. RIS is sometimes called ET or equivalent time
sample mode & can only be used with repetitive waveforms.
Also referred to as "random repetitive sampling".

Some oscilloscopes reduce sample rates by the number of channels activated. This could cause aliasing by changing the relationship of how fast the oscilloscope is sampling vs. the BW of the signals you are digitizing.

John Seney, WD1V [FN42]
Manchester NH 03103 USA
FAQ for Radios & Scopes
<http://www.qsl.net/wd1v>

Macnet FISTS #5014 NEWS
QRP ARCI 10345 NE 553
K2 1388

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 ' - ' 0

Aerocycle
2000

I am putting a portable qrp station together using my DX70. I am hoping to use 10 watts ssb and maybe go down to 5 watts as skill improves. I have a couple of 6.5Ah gel batteries.

Turning off the lcd display light enabled me to reduce the receive current from 680ma to 550ma. Good start !

Then I measured the transmit current.
Oh dear !!

At 10watts cw rf out the ht current(at 13.8v) showed 5.5 amps !!. I reckon thats about 75 watts in for 10w out. 13% efficient. Surely it can't be that inefficient ??

Does anyone have any experience of using this rig from a battery ? Could my current meter be dodgy ?
I am wondering if I should have bought a can of tuna instead.

Any ideas most welcome.

&2 de Vic GW4JUN

Date: Tue, 29 Aug 2000 06:27:05 -0400
From: David M Kopacki <kf2ew@juno.com>
To: qrp-l@lehigh.edu
Subject: [78325] DL PA for the Sierra
Message-ID: <20000829.062706.-15763529.0.kf2ew@juno.com>
MIME-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7bit

Does anyone have the German PA kit for the Sierra that they would like to sell?

Thanks,
Mike, KF2EW

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<http://dl.www.juno.com/get/tagj>.

Date: Tue, 29 Aug 2000 06:36:45 -0400
From: Tom and Roxy <zikot@erie.net>
To: qrp-l@Lehigh.EDU
Subject: [78326] Noise Generator
Message-ID: <3.0.5.32.20000829063645.007b5330@erie.net>

Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Does anyone have a schematic for a diode noise generator to use for antenna measurement, etc..?? I use to have a schematic for one that used a 1N23B but I'll be darned if I can find it.

Tnx to anyone that can help.

73's es gud DX!

Tom & Roxanne
WA1VAI/3

Date: Tue, 29 Aug 2000 06:47:23 +0000
From: Michael Neverdosky <mneverdosky@earthlink.net>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [78327] Another great tool, the ESR
Message-ID: <39AB4E6B.D261772D@earthlink.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

With the discussion of the octopus I thought I would bring up another great tool. It is more complicated and expensive than the octopus but is fantastic for checking electrolytic caps.
The equivalent series resistance meter or ESR.

The one I use was designed by Bob Parker;
<http://www.ozemail.com.au/~bobpar/>
Scroll down to "ESR and low Ohms meter"
<http://www.ozemail.com.au/~bobpar/esr-meter.htm>

This device is fantastic for testing caps and if you ever fix a TV or monitor it will pay for itself in the first use.

For those of us in the USA the information and kits or assembled units are available from;
<http://www.anatekcorp.com/>
You can save a few dollars from them is you go to the "Fleamarket" page and scroll down to the Anatek table.

I don't get anything from any of these people, I am just letting people know about a nifty tool.

This instrument is also great for checking the resistance of contacts and connections as it accurately measures down to hundredths of an ohm. For example the test leads (high quality) I use with mine measure right at 0.12 ohm which is zeroed out so that the reading is directly the item under test.

My ESR saved me lots of time fixing a battery charger for RC planes that was showing 5 amps of current out when the actual current was 1.25 amps. I was able to quickly and accurately measure the meter shunt and find that the shunt was 0.2 ohm instead of the spec. 0.05 ohm. A quick resistor swap and my charger was working perfectly again.

Enough blabbering by me, check the web pages, read the parts about electrolytics and how they fail and see if this might be something you can use.

michael N6CHV

Date: Tue, 29 Aug 2000 07:49:28 -0400
From: ekwik@rtimail.com
To: qrp-l@Lehigh.EDU
Subject: [78328] Michigan QRP Net Tonight
Message-ID: <0FB7BAC71D.5615C5F6-0N8525694A.0040AF2C@rtimail.com>
MIME-Version: 1.0
Content-type: text/plain; charset=us-ascii

Just a reminder that the MI QRP net meets Tuesday nights at 9:00 PM Eastern time on 3.535 MHz. All check ins are welcome. NCS is AB8DF

Ed AB8DF

Date: Tue, 29 Aug 2000 07:56:43 -0400
From: Greg Weinfurtner <weinfurt@oak.cats.ohiou.edu>
To: qrp-l@Lehigh.EDU
Subject: [78329] Thermoelectric powered radio
Message-ID: <v03110704b5d14facaeea@[132.235.81.133]>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Hi all,

Many moons ago, I mentioned an article in one of my old encyclopedias (Anyone remember those things!?!?) that described a radio that can be powered by a candle heating a thermoelectric element. A few of you here on QRP had inquired about it but I didn't have the article. The encyclopedias were in storage at my parents house. I used these encyclopedias in my younger days of the 1960's.

Well, I finally found the article and posted it up on a webpage. It is at:

<http://oak.cats.ohiou.edu/~weinfurt/thermoradio.htm>

Talk about QRP! 6/10ths of a volt at about 100 ua. There is no reason that the example could not be scaled up to charge batteries, etc. A thermoelectric power supply would be great, especially around a campfire...

73 de NS80

Date: Tue, 29 Aug 2000 08:02:34 -0400
From: "John J. McDonough" <wb8rcr@arrl.net>
To: <thecabal@mindspring.com>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [78330] Re: Thanks...and another question!
Message-ID: <005101c011b1\$9793bfe0\$010044c0@baycty1.mi.home.com>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Jason,

Pete and Bill gave you a good fraction of the equation.

The thing is, whenever you are learning something, you need to use it to make it stick. Pete said, "get your hands busy". Well, there's a bit more to it. You need to get doing something that will exercise those gray cells. To really get on with it, there are 2 barriers you need to overcome.

The first is the hardest, and you seem to have come a long way. That is,

simply getting over the idea that you can't do it. The fact of the matter is, as talented as the Dave Fifield's and Jim Kortge's are, they still put their pants on one leg at a time. There is nothing they can do that you can't do. Ok, you may be a little slower, maybe not as elegant at first, but practice makes perfect.

The second is a junkbox. You need to start collecting the common parts so that when you want to try something, you have the stuff on hand. This doesn't have to happen overnight. But start getting used to looking for deals on parts at hamfests, be alert to the things you are likely to use, and when you order parts for a project, order heavy on the common stuff. Be especially alert for quantity prices. Many times, for example, at radioshack.com, it's cheaper to get 10 of something than 3.

Next I would build a couple of kits or handbook projects. The point here is simply to build you mechanical skills, so I wouldn't go after anything too expensive. You simply want to get to the point where you can slobber something together with a reasonable degree of confidence that it will work.

During this time, you also want to study the best learning resource out there - the work of other talented designers. Schematics for most of the kits out there are available on the net. Study them, compare them, if you have someone like-minded nearby, sit down and talk through them. If something doesn't make sense, email the designer. I'm sure if you wondered why the SW-40 does something one way, when everyone else does it differently, Dave Benson would be tickled to death to talk about his design decisions.

As this stuff makes sense to you, you're going to start forming your own opinions of how it 'should be'. Now you can really accelerate your learning. Start doing it your way. Sure, every stage will be a struggle. You'll be constantly running back to the handbook to figure out how to do this or that calculation, but all that theory will begin to make real sense. When something doesn't make sense, post the question on QRP-L. Some of the best designers in the world are here, and they are all more than willing to help. You'll do a zillion SPICE models trying to make this stage behave just so. But it's terrific fun, and pretty soon, a lot of this stuff that seems impenetrable will be intuitive.

This stuff is a lot of fun, but the hardest part is simply getting started.

72/73 de WB8RCR <http://members.home.com/wb8rcr/index.htm>
didileydadidah QRP-L #1446 Code Warriors #35

----- Original Message -----

From: "Jason Milldrum" <thecabal@mindspring.com>

Subject: Thanks...and another question!

> that I've got a grasp of the basics, but I can't really find where to
apply
> this info into practical examples. It's hard for me to just memorize
> equations and laws with no real framework to use it in. I, along with
other

Date: Tue, 29 Aug 2000 08:18:26 -0400
From: "steve" <sblary@bellsouth.net>
To: "'Low Power Amateur Radio Discussion'" <qrp-1@Lehigh.EDU>
Subject: [78331] ANT- Gap Challenger in the wind THANKS!
Message-ID: <000301c011b3\$3c74f550\$7464a8c0@AREA51>
MIME-Version: 1.0
Content-Type: text/plain;
charset="US-ASCII"
Content-Transfer-Encoding: 7bit

I'd like to thank all who responded to my inquiry about my Gap antenna.
Here is a summary of the responses:

1. most recommended tightening the guy wires to add more support instead of leaving them loose as the manufacturer suggested.
2. many suggested raising the guy point higher on the antenna and several suggested adding an additional set of guys
3. Several owners of the antenna agreed with my observation and expressed like concern, but their fears have been cast aside after the antenna has survived a few storms <G>
4. make sure to use dacron rope for UV durability

I plan on raising the guy point and tightening the wires. Hopefully that will be sufficient.

So far I'm very pleased with the antenna. Currently I'm just using it for receive (except on 10 meters) and I can hear a big improvement on the other bands that my current antenna is not tuned for. It seemed to be the solution I needed for my QTH -- small footprint and 7 bands <G>

now that I have an antenna for 80 and 40 meters I can build my pixie's and TT's!

Thanks everyone!
73's
Steve KD4LIV

Date: Tue, 29 Aug 2000 07:31:49 -0500
From: "Kanalz, Karl" <Karl.Kanalz@allegiancetelecom.com>
To: "'zikot@erie.net'" <zikot@erie.net>, Low Power Amateur Radio Discussion <qrp-
l@Lehigh.EDU>
Subject: [78332] RE: Noise Generator
Message-ID: <E78D8A9D6762D411B5440008C791D4AA199A3D@dfwex03.allegiancetelecom.com>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"

You'll have a darned tough time finding that 1N23B too, Tom, if you find the schematic for your diode noise generator!

A noise generator kit for aligning filters has been discussed many, many times on this reflector - I think it's from the Arizona group - check the QRP-L archives for the last three weeks or so and you'll find it. It's low cost and works great!

Karl K - W8TIF
McKinney, Texas

-----Original Message-----
From: Tom and Roxy [SMTP:zikot@erie.net]
Sent: Tuesday, August 29, 2000 5:37 AM
To: Low Power Amateur Radio Discussion
Subject: Noise Generator

Does anyone have a schematic for a diode noise generator to use for antenna measurement, etc...?? I use to have a schematic for one that used a 1N23B but I'll be darned if I can find it.

Tnx to anyone that can help.

73's es gud DX!

Tom & Roxanne
WA1VAI/3

Date: Tue, 29 Aug 2000 08:36:24 +0000
From: John R Kirby <n3aaz-qrp@juno.com>
To: zikot@erie.net, qrp-1@Lehigh.EDU
Subject: [78333] Re: Noise Generator
Message-ID: <20000829.083728.-157647.2.n3aaz-qrp@juno.com>
MIME-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7bit

>Does anyone have a schematic for a diode noise generator to
>use for antenna measurement, etc...??

How about a modulated noise bridge, for better resolution?

. . . n3aaz snip es clip de archives . . .

From: n3aaz-qrp@juno.com
To: qrp-1@Lehigh.EDU
Date: Sun, 4 Jul 1999 07:34:38 -0400
Subject: MNB-01 My Conclusion

The modulated noise bridge (MNB)
measures $X(L)$ and $X(C)$ and R
using only an AM radio.

Original subject was
Spice and the Noise Bridge (here on qrp-1).

I promised closure, so
to those interested enjoy : -)
else (its a bit long) delete now ; -(

A block diagram and "QesD"
calibration procedure are enclosed.

>>>>I now have a schematic, n3aaz<<<<<<

My objective in a nut shell
a hardware project (the NB) that would reinforce
a software (SPICE) learning experience.

Conclusion in a nut shell
I am pleased,
both work like gang busters.

Software:

1) The free version of WinSpice3,
(suggested here on the list) works great,
has a lot of models to choose from and gets the job done.
Getting it up and running was not straight forward but
I "was" a newbie to SPICE.

2) The free Student version of Circuit Maker
(also suggested here on the list) does all the above
plus draw the schematic and
has a "component" sweep function.
I found the Help file and Tutorial very helpful.

3) Only the "bridge" and associated "legs" were evaluated,
I did not model the modulator.

3-1) Subjective? Yes. This WAS
my first ever PC SPICE rendezvous.

4) How does the modulator work?
Like gang busters!

Hardware:

1) My cost \$0.00 (built an entire, practical,
instrument from the bone yard).

2) I now own an impedance meter that tells me
the magnitude of reactance (XL or XC) and
the measure of the resistance (R) using
only an AM radio.

3) With in reason calibration
resolution and accuracy
can be as impressive
as one chooses.

Reason

1) The complete compensation and calibration
procedure is laborious (but doable),
it requires only an AM radio that tunes from
1.5 MHz to 30 MHz and a length of *GOOD*
RG-8 (a quarter wave at 10 MHz, about 20 feet).

2) I mentioned a "Quick and Dirty" Impedance meter
in some of the earlier posts. The MNB-01 described
here is quick and dirty from a calibration stand point.

3) Quick and Dirty calibration is a snap >IF< you...

make >Cs< approximately equal to >Cvar< / 2.
For example, if >Cvar< is a 365 pF tuning capacitor
from an old "five tube radio" make >Cs< 175 pF.

A few comments

1) The only test equipment used was a
VOM from Radio Shack.

2) The noise "source" is a
light emitting diode LED,
if it lights it works.

3) What lights the LED? The modulator.
The modulator frequency is not critical.

4) >Rvar< is the most critical component in the project.
>Rva< , a variable resistor, used to measure R,
must be mounted in such a way that
leads are as short as possible AND
the human hand has no affect while tuning
(both, from a stray capacitance position).

5) The "bridge" (heart of the circuit) is a transformer,
trifiler wound on a toroid. I wound and tried several
(powdered iron and ferrite) and all worked but
the Mini-Circuits (MCL) T4-1 works best.
The T4-1 is a 6-pin DIP (dual in-line package),
(similar to the common 741 DIP op-amp).

5-1) Gene,
<evhall@ix.netcom.com>
has given permission to join in this
group buy here on the list until 17July 99:
>Date: Mon, 28 Jun 1999 21:26:34 -0400<
>Subject: Minicircuits Group Buy ADE-1<

6) I only performed the compensation procedure
to the point of knowing it was doable using
the "gimmick" technique of pruning a capacitor.

7) I only performed the calibration procedure
to the point of knowing it was doable (using
junk coax "spliced" together (not RG-8)).

8) A schematic is in final stages
(ASCII format only) and will be sent as promised.

9) An ASCII block diagram is attached.

10) The "QesD" calibration procedure is attached.

John
N3AAZ
FM19xa

MNB-01 QesD Calibration Procedure:

This (QesD) procedure calibrates the MNB-01 in ARBITRARY units not ABSOLUTE units.

Yes, it measures X(L) and X(C) and R and how much.

Yes, a published compensation and calibration procedure IS available and accurate to +/- 5% (apx.).

The QesD (Quick and Dirty) Method,
also known as >kisj< (KEEP iT sIMPLE jOHN).

Note, nothing in this procedure is critical.

The value of Cs must be approximately one half the value of Cvar.

Rotate Cvar to the full meshed position (max C).

Install a knob with a pointer on the shaft of Cvar such that the pointer is at "3 o'clock" when Cvar is fully meshed.

Mark the front panel, >X(L) MAX<

Install a 50 Ohm non inductive resistor at the UNKNOWN port.

Install an AM radio at the RADIO port (tune to any frequency, 0.5 to 30 MHz).

"NULL" the bridge,
adjust Cvar AND Rvar until a null is heard in the radio,
Again, adjust Cvar and Rvar until a DEEPER, SHARPER (narrow) null is heard in the radio,
Again and if the null is too broad (more than a "few degrees" of shaft rotation) then
change the radio gain and or bandwidth then adjust Cvar / Rvar again for the best null possible, then,

Mark the front panel:

1) for the Cvar pointer, >X = 0<

```
+-----+
|                                             |
|                                             |
|                                             |
|               -----                     |
|           -----| Complex Parameter Port   |
|               |         ----- (to be Measured) |
|               |                                     |
|               |                                     | | |
|---|---|---|---|
|       | Bridge |         -----             |
|-----|         |-----| Station Receiver    |
|       | (Xfmer)|         ----- (Headphones) |
|       +-----+
```



```

|               | -----
|               |
|               |
| ----- | -----
|               | Calibration Port
|               | ----- (Variable R and C)
|
| -----
| (9 V Batt) | | Amp |
| Power Supply | | (2 ea, |
| (7805) | | 2n2222) |
| -----
|               |
| -----
| ----- | Noise |
| Modulator |-----| Source |
|-----|
| (7404) ----- | (LED) | | Noise Bridge
| -----
|-----|
|               | Block Diagram
|-----|
|               | 109-0 n3aaz
|
+ -----
+
END BD /jk

```

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<http://dl.www.juno.com/get/tagj>.

Date: Tue, 29 Aug 2000 07:37:56 -0500
From: "Kanalz, Karl" <Karl.Kanalz@allegiancetelecom.com>
To: "'weinfurt@oak.cats.ohiou.edu'" <weinfurt@oak.cats.ohiou.edu>, Low Power
Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [78334] RE: Thermoelectric powered radio
Message-ID: <E78D8A9D6762D411B5440008C791D4AA199A3E@dfwex03.allegiancetelecom.com>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"

Didn't the Russians have a thermoelectric "pile" (a cluster of thermoelectric generator elements) mounted in a sort of circular housing that could be placed over the "hot" chimney of their oil lamps to provide power for a simple radio? Seems to me I read about this (and saw a photo of it) in Popular Electronics many years ago....certainly a nifty way to make use of everything (except the squeal!).

Karl K - W8TIF
McKinney, Texas

-----Original Message-----

From: Greg Weinfurtner [SMTP:weinfurt@oak.cats.ohiou.edu]
Sent: Tuesday, August 29, 2000 6:57 AM
To: Low Power Amateur Radio Discussion
Subject: Thermoelectric powered radio

Hi all,

Many moons ago, I mentioned an article in one of my old encyclopedias (Anyone remember those things!?!?) that described a radio that can be powered by a candle heating a thermoelectric element. A few of you here on QRP had inquired about it but I didn't have the article. The encyclopedias were in storage at my parents house. I used these encyclopedias in my younger days of the 1960's.

Well, I finally found the article and posted it up on a webpage. It is at:
<http://oak.cats.ohiou.edu/~weinfurt/thermoradio.htm>
<<http://oak.cats.ohiou.edu/~weinfurt/thermoradio.htm>>

Talk about QRP! 6/10ths of a volt at about 100 ua. There is no reason that the example could not be scaled up to charge batteries, etc. A thermoelectric power supply would be great, especially around a campfire...

73 de NS80

Date: Tue, 29 Aug 2000 15:39:46 +0300
From: Arjen Raateland <Arjen.Raateland@vyh.fi>

To: QRP-L <QRP-L@lehigh.edu>
Subject: [78335] Re: Noise generator
Message-ID: <39ABAF12.1046@vyh.fi>
MIME-version: 1.0
Content-type: text/plain; charset=us-ascii
Content-transfer-encoding: 7bit

Tom and Roxy wrote:

>
> Does anyone have a schematic for a diode noise generator to
> use for antenna measurement, etc..?? I use to have a schematic
> for one that used a 1N23B but I'll be darned if I can find it.

AFAIK the 1N23b is a microwave diode that was sometimes used as a noise source for comparative noise figure measurements in VHF/UHF gear. If you need a noise source for lower frequencies, you don't need to use such a fancy diode. Also, if by antenna measurement you mean an impedance bridge with a noise generator as signal source and RX as detector (perhaps for a fixed imp. of 50 Ohm to set the ATU), you'll need a wide band amplifier of the kind in NOSS's circuit to create enough noise. A be-junction in reverse is used as a noise source, they are more abundant than 1N23B's and easier to mount, too.

HR had a very nice article on antenna/impedance noise bridges in around 1976-84. I built one with a very good variable C and it worked well. Gave it away afterwards with a load of other stuff I built myself (which I probably shouldn't have done.) There is a comment of mine on the HR article in a subsequent issue.

Just my 2 cts,
73,
--
Arjen Raateland
OH2ZAZ

Date: Tue, 29 Aug 2000 08:49:01 +0000
From: John R Kirby <n3aaz-qrp@juno.com>
To: qrp-l@Lehigh.EDU, zikot@erie.net
Subject: [78336] Re: Noise Generator (modulated)
Message-ID: <20000829.084906.-157647.3.n3aaz-qrp@juno.com>
MIME-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7bit

1N23 NOT REQUIRED

It uses an LED (noise source / eye ball tuning indicator) and 2n2222s (of all things)!

John
N3AAZ
FM19xa

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<http://dl.www.juno.com/get/tagj>.

Date: Tue, 29 Aug 2000 13:48:07 +0100
From: Vic Winton <Vic.Winton@trafford-press.com>
To: "'qrp-l@Lehigh.EDU'" <qrp-l@lehigh.edu>
Subject: [78337] SEARCG QRP-L/ARCHIVES/2000 "^subject:current consumption"
Message-ID: <C94AC5B1B413D411ABDC009027177A641C20@trafford01.trafford-press.com>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"

Date: Tue, 29 Aug 2000 09:25:39 -0400
From: wb2vuo@juno.com
To: qrp-l@lehigh.edu
Subject: [78338] German List members?
Message-ID: <20000829.092543.-71969.0.wb2vuo@juno.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Hi. Keith here in the Depths of the Great Bergen Swamps of WNY

Our family is sponsoring an exchange student from Eisenhuttenstadt,
Germany and I was wondering if there's anyone on the List from that area.

Drop me a direct Email if so, and thanks.

72/73, Keith, WB2VUO, 100% QRP from the Depths of the Great Bergen Swamp
President, Brockport Amateur Radio Klub & Tech Coordinator, ARRL WNY
Section
My night light runs more power than my Rig!!!

Replies - <mailto:wb2vuo@arrl.net>

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<http://dl.www.juno.com/get/tagj>.

Date: Tue, 29 Aug 2000 08:29:59 -0500

From: "Cla KA0GKC" <ka0gkc@arrl.net>

To: <thecabal@mindspring.com>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>

Subject: [78339] Re: Thanks...and another question!

Message-ID: <[017d01c011bd\\$4d8496c0\\$0200000a@mcg.net](mailto:017d01c011bd$4d8496c0$0200000a@mcg.net)>

Hi Jason,

I would have to recommend the QRP-L Elmer 101 course. This was a building project done on the list a couple years back. You buy an SW40+ from Small Wonders Labs <http://www.smallwonderlabs.com/> and build it stage by stage with the idea to understand what is going on. All the Elmer 101 questions and answers are in the archives, QRP-L CD-ROM or are available at this site <http://www.qsl.net/kf4trd/> which also contains links to other Elmer 101 information. Also contact Paul Harden, NA5N <na5n@rt66.com> and see if he still has the THE ELMER 101 BOOK, I think it's about \$12.00.

This is a great way to get building experience and hands on theory that will help you relate what you've read to the real world. Not only that, you end up with a really nice 40 meter transceiver as well!

Hope this helps,

73 de Cla KA0GKC

Date: Tue, 29 Aug 2000 09:33:01 EDT

From: BOBOBOB1@aol.com

To: qrp-l@lehigh.edu (Low Power Amateur Radio Discussion)

Subject: [78340] Shack Cleaning

Message-ID: <a1.9feaddb.26dd158d@aol.com>

MIME-Version: 1.0

Content-Type: text/plain; charset="US-ASCII"

Content-Transfer-Encoding: 7bit

Gentleman...

The Sierra, Norcal Paddle Kit and Rainbow tuner have been SOLD....

These items remain...

Thanks...

Bob Gorman

WA1SCH

- | | |
|--|----------|
| 1.) ANC-4 JPS Electrical Noise Reduction Unit
(Used once) | \$140.00 |
| 2.) NIR-12 JPS Professional Dual DSP
Noise /Interference Reduction Unit
(Used twice) | \$265.00 |
| 6.) Assembled St. Louis Vertical with
Fishing pole and 10-40
(W6MMA) coil... | \$75.00 |

All priced quoted are plus shipping.

Bob Gorman

WA1SCH

Date: Tue, 29 Aug 2000 08:37:57 -0500
From: "Cla KA0GKC" <ka0gkc@arrl.net>
To: <thecabal@mindspring.com>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [78341] Re: Thanks...and another question!
Message-ID: <019701c011be\$58fce100\$0200000a@mcg.net>

Jason,

Oops, I forgot to mention the best part of the Elmer 101 course. If you get stuck, just post a message here to Elmer 101: and you will get immediate help as all the teachers and past students are here!

73 de Cla KA0GKC

Date: Tue, 29 Aug 2000 09:48:23 -0400
From: "Lau, Zack, W1VT" <z1au@arrl.org>
To: "'qrp-1@Lehigh.EDU'" <qrp-1@Lehigh.EDU>
Subject: [78342] Re: Noise Generator
Message-ID: <125490A005E3D3118C9C00805FC743CC8D9C04@mail.arrl.org>

MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"

Hi Tom,

I got a whole bunch of 1N23 type diodes from a Texas QRP'er who maintained 6 GHz point to point microwave links. I actually used one of them to make a 1 mW 10 GHz transverter that Ed, W1RFI in 1992. "Final is a 1N23 diode" We worked from Haystack to Greylock, a 43 mile non-line of sight path.

Send me a sase and I'll send you a few
Zack Lau c/o ARRL Lab 225 Main Street Newington CT 06111.

Date: Tue, 29 Aug 2000 09:53:09 -0400
From: Bruce Muscolino <w6toy@erols.com>
To: Karl.Kanalz@allegiancetelecom.com
Cc: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [78343] Re: Thermoelectric powered radio
Message-ID: <39ABC045.6DF8@erols.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Karl,

Several years ago, perhaps in 1996, I attended a Navy trade show here in Washington. There was an American company displaying a thermoelectric generator for use on ships. I'm afraid I don't remember much about the unit except that it was small, about 6 to 8 inches in diameter and about 3 feet tall. I believe the company was Babcock and Wilcox, a name I remembered from my youth but I am not sure! Perhaps a web search would raise something interesting.

73

Date: Tue, 29 Aug 2000 08:52:52 -0500
From: DONALD DORN <DDORN@CWIS.NET>
To: LOW POWER AMATEUR RADIO DISS <QRP-L@LEHIGH.EDU>
Subject: [78344] PASS TRANSISTOR
Message-ID: <39ABC034.48AF845F@CWIS.NET>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Howdy all,

I need to improve the regulation of a 12V PS. A short time ago somebody posted a message which identified a better transistor to use as the pass transistor than the MJ2955. I lost the message so would that person, or somebody, please repeat it or send to me directly?

Thanks es 73,
Don K5AAR
Lake Eufaula, Ok.

Date: Tue, 29 Aug 2000 09:58:58 -0400
From: Richard Rood <fcs@juno.com>
To: qrp-1@lehigh.edu
Subject: [78345] For Solar stuff . . .
Message-ID: <20000829.095859.-4064357.0.fcs@juno.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

. . .look here:

[gopher://sec.noaa.gov/11/latest](http://sec.noaa.gov/11/latest)

dick, w2scf

Date: Tue, 29 Aug 2000 09:09:37 -0500
From: "Kevin Muenzler, WB5RUE" <wb5rue@arrl.net>
To: "'Low Power Amateur Radio Discussion'" <qrp-1@Lehigh.EDU>
Subject: [78346] RE: For Solar stuff . . .
Message-ID: <000401c011c2\$c4246120\$ef5d6f81@v8.uthscsa.edu>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

and here...

http://www.sec.noaa.gov/rt_plots/dregion.html

> -----Original Message-----
> From: owner-qrp-1@Lehigh.EDU
> [mailto:owner-qrp-1@Lehigh.EDU]On Behalf Of
> Richard Rood
> Sent: Tuesday, August 29, 2000 8:59 AM

> To: Low Power Amateur Radio Discussion
> Subject: For Solar stuff . . .
>
>
> . . .look here:
>
> gopher://sec.noaa.gov/11/latest
>
> dick, w2scf
>

Date: Tue, 29 Aug 2000 10:27:14 -0400
From: Michael C Boatright <ko4wx@mindspring.com>
To: QRP-L <qrp-l@Lehigh.EDU>
Subject: [78347] Construction: Kitchin Regen
Message-ID: <39ABC842.82C8F36C@mindspring.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

A few of us in NOGA QRP (North Georgia QRP Club) have, on a whim, decided to build Charles Kitchin, N1TEV's, "A Simple Regen Radio for Beginners" from the September, 2000, QST. Wow! It's been a fun little project! I've tried to build a couple of different regen designs in the past, but hadn't been very successful. Either the designs were too complicated or I was working with too many different variables.

I built mine on a piece of perfboard and used a reasonably hot (B=225) 2N3904 instead of the 2N2222A. Also used a polyvaricap (the kind used in transistor radios) which is VERY touchy on the tuning, even with a Vernier dial. Plan to add the fine tuning circuit this afternoon.

Now I've successfully built the Norcal 20 (350 or so parts) and the SOP, and enjoyed them both (I love a challenge), but this little project has been a real blast! Very simple circuit, not too difficult to build, but enough of a challenge to be entertaining. Would really work great as a project for technically oriented schoolkids...

Got my vote at the ARRL Members Only site
(<http://www.arrl.org/members-only/>) for the Best September 2000 story.

72 de Mike, K04WX

--

Mike Boatright, K04WX
Assistant Section Emergency Coordinator,

GA Section Amateur Radio Emergency Service

A rock pile ceases to be a rock pile the moment a single man
contemplates it, bearing within him the image of a cathedral.
Antoine de Saint-Exupery

Date: Tue, 29 Aug 2000 10:31:34 -0400
From: Joe Mikuckis <k3chp@erols.com>
To: qrp-1@lehigh.edu
Subject: [78348] Lost Data?
Message-ID: <39ABC946.5648@erols.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Several years ago, using dBase III, I created a database for all my QRP
QSOs on 3.5-inch floppies. This represented over four thousand contacts
and involved quite a bit of work. Now, while trying to update it, I
find that it does not work with WIN98. What to do? Is there a present
program which will allow me to run and use dBase III? I hate to lose
it. Any help will be very much appreciated.

Joe, K3CHP
Riverdale, MD

Date: Tue, 29 Aug 2000 10:33:34 -0400
From: "Hare, Ed, W1RFI" <w1rfi@arrl.org>
To: "'TomRScott@Sterlink.net'" <TomRScott@Sterlink.net>, Low Power Amateur Radio
Discussion <qrp-1@Lehigh.EDU>
Subject: [78349] RE: Source for 30m crystals? 2nd posting...
Message-ID: <125490A005E3D3118C9C00805FC743CCB2C3DD@mail.arrl.org>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"

Hi, Tom,

See:

<http://www.arrl.org/cgi-bin/tisfind?case=on&patt=COMPONENT%3eCRYSTAL+MANUFACTURER>

From: Bill Coleman AA4LR <aa4lr@radio.org>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [78350] Re: Short Vertical Optimization
Message-ID: <1000729104903.KAA09828@gate.iterated.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"

On 8/24/00 12:45 PM, ARDUJENSKI@aol.com at ARDUJENSKI@aol.com wrote:

>VK1BRH
>has a paper on the Short Vertical Antenna Ground Systems for example
>discusses the elevating of the radials 0.05 wl and using 4 -0.15wl long
>radials for optimal performance; more and longer radials give diminishing
>returns. This is supported in LB CEBIK's paper. I think CEBIK uses the value
>of 0.075wl. For 20M we are talking about elevating 5 ft and for 40m about 10
>ft.
>
>It is my read on the situation that the elevating of the vertical at least
>0.05wl will give the best performance for the least complexity.

This is a subject of much debate. From some of the messages Tom, W8JI has posted to TowerTalk, it would appear that the "magic" efficiency of elevated radials cannot be borne out by actual RF field strength measurements. In particular, an AM broadcast station tried elevated radials. The resulting RF field strength measurements were no where near that of a properly installed ground radial system.

I strongly suspect that the interest in elevated radials is a direct result of computer modeling. Radials near or in the ground do not model well, so greater efficiency may be apparent in the models with elevated radials. These efficiencies have not been confirmed by actual measurement, because they reflect errors in the modeling, not the actual physics of the antenna.

Bottom line: if you can only install 2-8 radials, you are probably better off elevating them. If you are able to install 30-120 radials, then a ground-mounted system offers greater efficiency.

Bill Coleman, AA4LR, PP-ASEL Mail: aa4lr@radio.org
Quote: "Boot, you transistorized tormentor! Boot!"
-- Archibald Asparagus, VeggieTales

Date: Tue, 29 Aug 2000 09:57:53 -0500

From: "Kevin Muenzler, WB5RUE" <wb5rue@arrl.net>
To: "'Low Power Amateur Radio Discussion'" <qrp-l@Lehigh.EDU>
Subject: [78351] RE: Lost Data?
Message-ID: <000001c011c9\$828ecff0\$ef5d6f81@v8.uthscsa.edu>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Try restarting your computer in dos mode and see what happens. Sometimes Windows98 "protects itself" in ways that prevent programs from running. The dos mode has less "protection."

73/
Kevin, WB5RUE

> -----Original Message-----
> From: owner-qrp-l@Lehigh.EDU
> [mailto:owner-qrp-l@Lehigh.EDU]On Behalf Of
> Joe Mikuckis
> Sent: Tuesday, August 29, 2000 9:32 AM
> To: Low Power Amateur Radio Discussion
> Subject: Lost Data?
>
>
> Several years ago, using dBase III, I created a database for
> all my QRP
> QSOs on 3.5-inch floppies. This represented over four
> thousand contacts
> and involved quite a bit of work. Now, while trying to update it, I
> find that it does not work with WIN98. What to do? Is there
> a present
> program which will allow me to run and use dBase III? I hate to lose
> it. Any help will be very much appreciated.
>
> Joe, K3CHP
> Riverdale, MD
>
>

Date: Tue, 29 Aug 2000 09:03:40 -0600 (MDT)
From: "Karl F. Larsen" <k5di@zianet.com>
To: QRP-L List <qrp-l@lehigh.edu>
Subject: [78352] Argonaut Tests
Message-ID: <Pine.LNX.4.10.10008290853001.749-100000@cannac.ampr.org>

MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

I got around to running some heat tests with the Argonaut 509 I modified with 2 large RF transistors. I set the rig up into a dumb load at 5 watts output and ran it key down for 5 minutes. The heat sink got warm after 2 minutes and then got no warmer in 5 minutes. The temperature gauge is my little finger. This makes me think it will run forever at 5 watts.

Next I increased the drive to 10 watts output and again the heat sink gets warm faster but didn't keep getting warm, but I then after 3 minutes began to smell a hot resistor(s). I terminated the test. There are 1 ohm 1/2 watt resistors in each emitter lead. I think this keeps imbalance in transistor beta from being a problem. But at 10 watts output and more than 20 watts of total dissipation the current in the 1 ohm resistors got to be too much.

Yours Truly,

- Karl F. Larsen, k5di@arrl.net (505) 524-3303 -

Date: Tue, 29 Aug 2000 09:08:26 -0600 (MDT)
From: "Karl F. Larsen" <k5di@zianet.com>
To: Joe Mikuckis <k3chp@erols.com>
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [78353] Re: Lost Data?
Message-ID: <Pine.LNX.4.10.10008290906110.976-1000000@cannac.ampr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Can you load dBase III in a dos window? If not try again after bringing win98 up in the dos mode. It should load and work either way since it's well written code.

On Tue, 29 Aug 2000, Joe Mikuckis wrote:

> Several years ago, using dBase III, I created a database for all my QRP
> QSOs on 3.5-inch floppies. This represented over four thousand contacts
> and involved quite a bit of work. Now, while trying to update it, I

Yours Truly,

- Karl F. Larsen, k5di@arrl.net (505) 524-3303 -

Date: Tue, 29 Aug 2000 11:12:25 -0400
From: "Brian" <brian@iquest.net>
To: "QRP-L" <qrp-l@lehigh.edu>
Subject: [78354] OT Iridium closer to end
Message-ID: <000d01c011cb\$8a23a900\$3d05080a@cincom.com>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

<http://www.washingtonpost.com/wp-dyn/nation/A26263-2000Aug25.html>

Looks like Motorola is about to bring the birds down.

Anyone know how many they have?

=====
KB9BVN/QRP - New Whiteland IN - EM69WN
QRP-ARCI #10223 QRP-L #1540 FIST #5695
FISTS CC #764 - Proud Member ARRL
TEN TEC SCOUT @ 5W or NORCAL 40a @ 1.3W
INTO INFAMOUS AF4PS ATTIC DIPOLE
Flying Pig QRP Member -57
=====

Date: Tue, 29 Aug 2000 08:14:21 -0700
From: Bob Hightower <nk7m@extremezone.com>
To: wb5rue@arrl.net, k3chp@erols.com
Cc: qrp-l@lehigh.edu
Subject: [78355] RE: Lost Data?
Message-ID: <200008291508.IAA10999@enterprise.extremezone.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

At 09:57 AM 8/29/2000 -0500, you wrote:

>Try restarting your computer in dos mode and see what happens. Sometimes
>Windows98 "protects itself" in ways that prevent programs from running. The
>dos mode has less "protection."

>

No need for that. You can put a shortcut to DOS on your desktop, then activate that, then enter the commands needed to bring dBase up in that window. Works FB. Or, you can spring for dBase for Windows and eliminate all that. This will also convert older dBase files for use in the new version.

Bob Hightower NK7M
Chandler, AZ
SOC #20
K2 #157/255

<http://www.extremezone.com/~nk7m>

Date: 29 Aug 00 10:22:28 EST
From: M Goins <mgoins@usa.net>
To: qrp-l@LeHigh.EDU
Subject: [78356] OT - sorta
Message-ID: <20000829152228.24013.qmail@aw163.netaddress.usa.net>
Mime-Version: 1.0
Content-Type: text/plain; charset=US-ASCII
Content-Transfer-Encoding: quoted-printable

Sort of off topic, but not really as it applies to qrp PSK-31. =

I have switched my monitor on the 233 computer from 16 colors to 256 colors and can't figure out how to get it back as it now has a tremendous flicker and tiny icons (can't read to redo). Anyone know how to fix this simply? t. =

thanks to the qrp computer gurus for any help.

mike
wb5yjx

Get free email and a permanent address at <http://www.amexmail.com/?A=3D1>

Date: Tue, 29 Aug 2000 10:24:51 -0500
From: "Kevin Muenzler, WB5RUE" <wb5rue@arrl.net>
To: "'Low Power Amateur Radio Discussion'" <qrp-l@Lehigh.EDU>
Subject: [78357] RE: Lost Data?
Message-ID: <000001c011cd\$46fa23a0\$ef5d6f81@v8.uthscsa.edu>

MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Running a dos command prompt within Windows won't help if he's having troubles running it directly. Windows automatically starts the dos command system when a dos program is detected. It will prevent certain operations from taking place that are considered by Windows to be "unsafe." Restarting in dos mode eliminates the need for the safeguards that Windows has in place. Remember Windows is a multi-tasking operating system that prevents certain direct hardware access. DOS doesn't have these protections in place.

However you are correct, upgrading to dBase for Windows9x will most likely eliminate the problem. I don't think that dBase for Windows is THAT expensive but then I haven't checked. I use MS Access as my database, it will read dBase files also.

72/73

Kevin, WB5RUE

All computers wait at the same speed.

> -----Original Message-----

> From: Bob Hightower [mailto:nk7m@extremezone.com]

> Sent: Tuesday, August 29, 2000 10:14 AM

> To: wb5rue@arrl.net; k3chp@erols.com

> Cc: qrp-1@lehigh.edu

> Subject: RE: Lost Data?

>

>

> At 09:57 AM 8/29/2000 -0500, you wrote:

> >Try restarting your computer in dos mode and see what

> happens. Sometimes

> >Windows98 "protects itself" in ways that prevent programs

> from running. The

> >dos mode has less "protection."

> >

>

> No need for that. You can put a shortcut to DOS on your desktop, then

> activate that, then enter the commands needed to bring dBase

> up in that

> window. Works FB. Or, you can spring for dBase for Windows

> and eliminate

> all that. This will also convert older dBase files for use in

> the new version.

>

> Bob Hightower NK7M

> Chandler, AZ
> SOC #20
> K2 #157/255
>
> http://www.extremezone.com/~nk7m
>

Date: Tue, 29 Aug 2000 10:29:04 -0500
From: "Kevin Muenzler, WB5RUE" <wb5rue@arrl.net>
To: "'Low Power Amateur Radio Discussion'" <qrp-l@Lehigh.EDU>
Subject: [78358] FW: Lost Data?
Message-ID: <000201c011cd\$dd6bc7d0\$ef5d6f81@v8.uthscsa.edu>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

I suspected that running dBase for DOS in Win98's dos mode would work. Win98 has certain protections that prevent one process from stepping on another. This prevents many old dos programs from working properly under Win9x systems because they use direct hardware access for speed. The Windows based systems like 95/98/NT/2000 don't allow a program to access the hardware directly so these DOS shortcuts don't work properly or at all.

73/
Kevin, WB5RUE

> -----Original Message-----
> From: Frank Emens [mailto:femens@hiwaay.net]
> Sent: Tuesday, August 29, 2000 10:19 AM
> To: wb5rue@arrl.net
> Subject: RE: Lost Data?
>
>
> I can run dBase 4 in a MSDOS window under Win98 with only one
> problem. some functions, index generation especially, do not work
> in the window. I have found that restarting to MSDOS works, but I
> have two systems that refuse to restart to msdos. They hang up
> before restarting. So I restart and watch for the appropriate
> point to
> press F8 to let the system boot to DOS. When I do that every
> function of dBase 4 works great.
>
> Hope this helps -- good luck!
>

> Frank Emens
> femens@hiwaay.net
>

Date: Tue, 29 Aug 2000 11:34:36 -0400
From: "George Heron N2APB" <n2apb@erols.com>
To: <ko4wx@mindspring.com>, "Low Power Amateur Radio Discussion" <qrp-
l@lehigh.edu>
Subject: [78359] Re: Construction: Kitchin Regen
Message-ID: <001201c011ce\$a5e8b380\$84ca9cce@gheron>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

I agree with your assessment of Kitchen's regen project in QST, Mike. I too have begun the project with several neighborhood teens who have shown an interest in the antenna plopped in my back yard, and in the subsequent visits to my radio room in the basement.

We're currently laying out the board(s) to build it up Manhattan-style and I'll be documenting their progress (photos, etc.) for their class project submission and Boy Scout project (respectively).

It's really interesting to see the spark come alive in a youngster's eyes. And even more fun to help cultivate it.

73, George N2APB

=====
A few of us in NOGA QRP (North Georgia QRP Club) have, on a whim, decided to build Charles Kitchin, N1TEV's, "A Simple Regen Radio for Beginners" from the September, 2000, QST. Wow!
...
Would really work great as a
project for technically oriented schoolkids...

Date: Tue, 29 Aug 2000 10:36:31 -0500
From: "Kanalz, Karl" <Karl.Kanalz@allegiancetelecom.com>
To: "'k5di@zianet.com'" <k5di@zianet.com>, Low Power Amateur Radio Discussion
<qrp-l@Lehigh.EDU>

Subject: [78360] RE: Argonaut Tests

Message-ID: <E78D8A9D6762D411B5440008C791D4AA199A41@dfwex03.allegiancetelecom.com>

MIME-Version: 1.0

Content-Type: text/plain;
charset="iso-8859-1"

Karl,

You might want to consider reducing the value of those current-equalizing resistors to a lower value - say about 0.5 ohms or so - if space permits, I'd also beef them up to a one-watt size (even if you want to stay with the one-ohm value).

Karl K - W8TIF
McKinney, Texas

-----Original Message-----

From: Karl F. Larsen [SMTP:k5di@zianet.com]

Sent: Tuesday, August 29, 2000 10:04 AM

To: Low Power Amateur Radio Discussion

Subject: Argonaut Tests

I got around to running some heat tests with the Argonaut 509 I modified with 2 large RF transistors. I set the rig up into a dumb load at 5 watts output and ran it key down for 5 minutes. The heat sink got warm after 2 minutes and then got no warmer in 5 minutes. The temperature gauge is my little finger. This makes me think it will run forever at 5 watts.

Next I increased the drive to 10 watts output and again the heat sink gets warm faster but didn't keep getting warm, but I then after 3 minutes began to smell a hot resistor(s). I terminated the test. There are 1 ohm 1/2 watt resistors in each emitter lead. I think this keeps imbalance in transistor beta from being a problem. But at 10 watts output and more than 20 watts of total dissipation the current in the 1 ohm resistors got to be too much.

Yours Truly,

- Karl F. Larsen, k5di@arrl.net (505) 524-3303 -

Date: Tue, 29 Aug 2000 10:38:16 -0500

From: "Kanalz, Karl" <Karl.Kanalz@allegiancetelecom.com>

To: "'brian@iquest.net'" <brian@iquest.net>, Low Power Amateur Radio Discussion
<qrp-1@Lehigh.EDU>

Subject: [78361] RE: OT Iridium closer to end

Message-ID: <E78D8A9D6762D411B5440008C791D4AA199A42@dfwex03.allegiancetelecom.com>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"

According to the URL you posted, there are 88 of those things about to burn up in the atmosphere.

You could cover a ten acre field with bushel baskets and might recover some high-tech junk! :-)

Karl K - W8TIF
McKinney, Texas

-----Original Message-----

From: Brian [SMTP:brian@iquest.net]
Sent: Tuesday, August 29, 2000 10:12 AM
To: Low Power Amateur Radio Discussion
Subject: OT Iridium closer to end

<http://www.washingtonpost.com/wp-dyn/nation/A26263-2000Aug25.html>

Looks like Motorola is about to bring the birds down.

Anyone know how many they have?

Date: Tue, 29 Aug 2000 11:56:05 -0400
From: "Mike Yetsko" <myetsko@insydesw.com>
To: <Karl.Kanalz@allegiancetelecom.com>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [78362] Re: OT Iridium closer to end
Message-ID: <005d01c011d1\$a62d5640\$2101a8c0@insydesw.com>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

What's scary is I think 12 of them are 'out of control' and can come down anywhere over the next 100 years or so.

> According to the URL you posted, there are 88 of those things about to burn
> up in the atmosphere.

>
> You could cover a ten acre field with bushel baskets and might recover
some
> high-tech junk! :-)
>
> Karl K - W8TIF
> McKinney, Texas

Date: Tue, 29 Aug 2000 08:48:56 -0700
From: "Damon Raphael" <w7md@azstarnet.com>
To: <k3chp@erols.com>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [78363] Re: Lost Data?
Message-ID: <003401c011d0\$e4131720\$9027c5a9@virgo>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

With a program such as Partition Magic you should be able to repartition
your hard drive without having to destroy any data and create a separate
bootable partition for MSDOS vers 5 or 6.

You would then be able to boot DOS in an earlier compatible version and run
dBASE III.

73,

Damon, W7MD

----- Original Message -----

From: Joe Mikuckis <k3chp@erols.com>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Sent: Tuesday, August 29, 2000 7:31 AM
Subject: Lost Data?

> Several years ago, using dBase III, I created a database for all my QRP
> QSOs on 3.5-inch floppies. This represented over four thousand contacts
> and involved quite a bit of work. Now, while trying to update it, I
> find that it does not work with WIN98. What to do? Is there a present
> program which will allow me to run and use dBase III? I hate to lose
> it. Any help will be very much appreciated.
>

> Joe, K3CHP
> Riverdale, MD
>

Date: Tue, 29 Aug 2000 11:00:32 -0500
From: "Kevin Muenzler, WB5RUE" <wb5rue@arrl.net>
To: "'Low Power Amateur Radio Discussion'" <qrp-l@Lehigh.EDU>
Subject: [78364] RE: OT Iridium closer to end
Message-ID: <000001c011d2\$43382050\$ef5d6f81@v8.uthscsa.edu>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Personally I'm going to miss going outside after sunset and watching the
sometimes shadow-producing brightness of the flares.

Kevin, WB5RUE

Date: Tue, 29 Aug 2000 16:10:59 GMT
From: "Tom Dufresne" <tdufres@hotmail.com>
To: QRP-l@LEHIGH.EDU
Cc: tdufres@radiks.net
Subject: [78365] QRP For Newbies (long post)
Message-ID: <F159758Nqm4PheayLc200001bf1@hotmail.com>
Mime-Version: 1.0
Content-Type: text/plain; format=flowed

After much consternation, lots of good advice, and troubleshooting, I think
I have finished (?) my first rig from scratch. I will be testing on the air
today around 1500 hrs central time, on 15 meter band. Listen for me calling.
Having finished (?) the project, I came up with some ideas and advice for
those newbies like me who may want to try it for themselves.
First, and foremost, persist! Don't give up! You will get it.
Second, use your experts. I have got great advice, and even a few
well-deserved kicks in the butt from my elmers on the QRP-l reflector.
Third, have a good supplier of parts, and expect to go over whatever your
budget is (wow! thats the third set of caps I put in!) I used Ocean
Electronics and Mouser. Both good, Mouser doesn't have a minimum! Try to buy
all the parts at once, or you will get KILLED with shipping charge everytime
you have to place an order for TWO caps that were "lost" or "were bad".
Forth, read the instructions. When in doubt, read the instructions. If that

still doesn't help, read the instructions.

Fifth, expect to know your Radio Shack guy on a first name basis. You may even learn his kids names, his birthday, and his dogs name too. You will see him quite a bit until the rig is finished. Seriously, Radio Shack can be a good supplier for miscellaneous parts, but they will NOT have that 1.8 Ohm 1/2 watt resistor you really need. You bought a 1/4 watt from Mouser, was supposed to be a 1/2. Oops!, gotta place another Mouser order!

Sixth, have two soldering irons, and learn how to use them the right way. I used one for the actual placement of the components (15 watt) and used another for removing them when I screwed up! (a 25 watter)

Seventh, Have a good, clean workplace, and don't let it get too cluttered. Putting your rig together on the kitchen table is NOT a good way to keep peace and harmony in the family. ("Hon, it will just take a few minutes to put this together"..) Yeah, right!

Eight, Murphy was an optimist! If anything can go wrong, it will. Caps will be of the wrong tolerance, resistors will be wrong sizes, PC board traces will be damaged, etc. Don't worry, be happy! See?, you are learning so much! Keep repeating that as a mantra...

Nine, expect to be consumed by the desire to never try something like this again. Let this pass. That first contact you make with the new rig you made with your own hands, hearing your call coming through with a "SIGS SOUND FB HERE" will make it worthwhile.

Tenth, and finally, Enjoy it. The frustration, the highs, the lows, the mistakes, the stupid questions, the understanding Elmers, the late nights.. Now you're a real ham! You've built and used your very own rig!

72 ES HPE TU CUL

KC0GXX

Tom

Get Your Private, Free E-mail from MSN Hotmail at <http://www.hotmail.com>.

Share information about yourself, create your own public profile at <http://profiles.msn.com>.

Date: Tue, 29 Aug 2000 09:36:37 -0700
From: Bill Jones <kd7s@psnw.com>
To: mgoins@usa.net
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [78366] Re: OT - sorta
Message-ID: <39ABE695.200FBF36@psnw.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Hi Mike,

Find a blank space on your Windows desktop and right-click your mouse. Left click on "properties" and left click once again on "settings." Drag the slider labeled "Desktop Area" left or right as desired. You may also want to change the "Font size" settings.

M Goins wrote:

```
> Sort of off topic, but not really as it applies to qrp PSK-31.  
> I have switched my monitor on the 233 computer from 16 colors to 256 colors  
> and can't figure out how to get it back as it now has a trememdous flicker and  
> tiny icons (can't read to redo). Anyone know how to fix this simply? t.  
>  
> thanks to the qrp computer gurus for any help.  
>  
> mike  
> wb5yjx  
>  
>  
> -----  
> Get free email and a permanent address at http://www.amexmail.com/?A=1
```

--

```
-----  
Bill Jones - KD7S <><  
Sanger, California  
http://www.psnw.com/~kd7s/  
-----
```

```
-----  
Date: Tue, 29 Aug 2000 09:40:23 -0700 (MST)  
From: Chris Trask <ctrask@primenet.com>  
To: Joe Mikuckis <k3chp@erols.com>  
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>  
Subject: [78367] Re: Lost Data?  
Message-ID: <Pine.BSI.3.96.1000829093938.15778A-100000@usr06.primenet.com>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII
```

On Tue, 29 Aug 2000, Joe Mikuckis wrote:

```
> Several years ago, using dBase III, I created a database for all my QRP  
> QSOs on 3.5-inch floppies. This represented over four thousand contacts  
> and involved quite a bit of work. Now, while trying to update it, I  
> find that it does not work with WIN98. What to do? Is there a present
```

```
> program which will allow me to run and use dBase III? I hate to lose
> it. Any help will be very much appreciated.
>
```

You can read dBase III files with Access. I just transferred my library records into Access95 for Windows with no trouble at all.

Chris

```

      ,-----'
    /   What's all this   \
  / extinct stuff, anyhow? /
 \ -----'
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       \| "        \|
         \           \|
          .            ( ) \
             '-| )_-- :. \
                | | | | \ '.
                 c__; c__; ' -. ' > .__

```

High Performance Mixers and Amplifiers for RF Communications

Chris Trask / N7ZWY
Principal Engineer
Sonoran Radio Research
P.O. Box 25240
Tempe, Arizona 85285-5240

IEEE Member #40274515

Email: ctrask@primenet.com
<http://www.primenet.com/~ctrask>

Graphics by Loek Frederiks

Date: Tue, 29 Aug 2000 11:42:40 -0500
From: "Goveia, William P" <wgoveia@indiana.edu>
To: "'qrp-1@Lehigh.EDU'" <qrp-1@Lehigh.EDU>
Subject: [78368] RE: OT - sorta
Message-ID:
<4F1C26C2EB4CD211BD2300805F657B5C06752FCB@newjersey.exchange.indiana.edu>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"

If you can't quite see to do this, you can bot windows 95 or 98 into safe mode to do it:

Reboot the computer
as soon as you see the "starting windows 9x" text , press F8

A text based menu come up, select boot in safe mode
Follow Bill Jones instructions below
reboot

you should now be back to working order.

72/73,

William P. Goveia, Network Operations Specialist
Education Technology Services, School of Education
Indiana University at Bloomington
wgoveia@indiana.edu KB9RBW

> -----Original Message-----

> From: Bill Jones [mailto:kd7s@psnw.com]

> Sent: Tuesday, August 29, 2000 11:37 AM

> To: Low Power Amateur Radio Discussion

> Subject: Re: OT - sorta

>

>

> Hi Mike,

>

> Find a blank space on your Windows desktop and right-click

> your mouse. Left click

> on "properties" and left click once again on "settings."

> Drag the slider labeled

> "Desktop Area" left or right as desired. You may also want

> to change the "Font

> size" settings.

>

> M Goins wrote:

>

> > Sort of off topic, but not really as it applies to qrp PSK-31.

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> colors to 256 colors

> > and can't figure out how to get it back as it now has a

> tremendous flicker and

> > tiny icons (can't read to redo). Anyone know how to fix

> this simply? t.

> >

> > thanks to the qrp computer gurus for any help.

> >

> > mike

> > wb5yjx

> >

> >

> > -----
> > Get free email and a permanent address at

> <http://www.amexmail.com/?A=1>
>
> --
> -----
> Bill Jones - KD7S <><
> Sanger, California
> <http://www.psnw.com/~kd7s/>
> -----
>
>

Date: Tue, 29 Aug 2000 11:47:13 -0500
From: "Goveia, William P" <wgoveia@indiana.edu>
To: "'qrp-1@Lehigh.EDU'" <qrp-1@Lehigh.EDU>
Subject: [78369] FW: OT - very (was sorta)
Message-ID:
<4F1C26C2EB4CD211BD2300805F657B5C06752FCD@newjersey.exchange.indiana.edu>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"

Sorry about the grammar and spelling there. Believe it or not, English really is my native tongue. I just butcher it for some unknown reason every now and then!

72/73,
William P. Goveia, Network Operations Specialist
Education Technology Services, School of Education
Indiana University at Bloomington
wgoveia@indiana.edu

> -----Original Message-----
> From: Goveia, William P [<mailto:wgoveia@indiana.edu>]
> Sent: Tuesday, August 29, 2000 11:43 AM
> To: Low Power Amateur Radio Discussion
> Subject: RE: OT - sorta
>
>
> If you can't quite see to do this, you can bot windows 95 or
> 98 into safe
> mode to do it:
>
> Reboot the computer
> as soon as you see the "starting windows 9x" text , press F8
> A text based menu come up, select boot in safe mode

> Follow Bill Jones instructions below
> reboot
>
> you should now be back to working order.
>
> 72/73,

Date: Tue, 29 Aug 2000 13:13:39 -0500
From: "Ron White" <rwhite@netins.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [78370] WTB: QRP Classics
Message-ID: <002301c011e4\$dddfaf100\$d1108ea7@netins.net>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hi,
Anyone have a copy of QRP Classics they are willing to part with?
Ron

Ron White
e-mail - rwhite@netins.net
Amateur radio WA0MWW

Date: Tue, 29 Aug 2000 14:11:10 -0700
From: "Mark Paley" <mpaley@wcnet.org>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>, "Tentec Reflector" <tentec@contesting.com>, "Elecraft Reflector" <elecraft@qth.net>
Subject: [78371] Tentec goodies for sale
Message-ID: <001201c011fd\$a9138240\$b1ac85cd@oemcomputer>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

For those attending the Findlay (Ohio) hamfest on Sunday, 10 September I
will be there with several Tentec items for sale:

Century 21 analog.....\$200

Century 21 digital.....\$225
Tentec Scout w/all modules except 160M \$475
Tentec 277 Tuner.....\$75

and a few other goodies.....I sure could use a few bucks to help pay for my K1...

Hope to see you there,
Mark Paley--KF8KL--

K2 #250
mpaley@wcnet.org
<http://www.wcnet.org/~mpaley>

Date: Tue, 29 Aug 2000 15:39:10 -0400
From: "Lau, Zack, W1VT" <zlau@arrl.org>
To: "'qrp-1@Lehigh.EDU'" <qrp-1@Lehigh.EDU>
Subject: [78372] Re: Antenna G/T
Message-ID: <125490A005E3D3118C9C00805FC743CC8D9C07@mail.arrl.org>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"

No. As a very crude approximation, G/T tells you how much of your antenna pattern is pointed at noise sources, versus how much is aimed at the desired signal. You can't figure this out without knowing the pattern. In fact, you normally have to trade gain for a clean pattern. Thus, you can have two antenna arrays that look very similar, but the one with slightly higher gain has a much worse G/T.

Zack W1VT

Date: Tue, 29 Aug 2000 12:57:57 -0700
From: Tayloe Dan-P26412 <Dan.Tayloe@motorola.com>
To: "'qrp-1@Lehigh.EDU'" <qrp-1@Lehigh.EDU>
Subject: [78373] System noise and very low noise receiver testing
Message-ID: <87568F78ABDCD211A0AC0008C707718B029D0FEE@az10exm03.sat.mot.com>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"

I have been thinking about very sensitive receivers lately and I am not sure I understand the fundamental noise limits very well.

On the one hand, there is the system noise temperature, which yields an equation of $-173 + 10 \times \log(\text{bandwidth})$ dbm. Therefore, for a 500 Hz wide receiver, the noise is $-173 + 10 \times \log(500) = -146$ dbm of RMS noise. Since $1 \text{ mW} = 0.2236 \text{ V RMS}$, this represents a noise level of 11 nV.

On the other hand, the noise level of a 50 ohm resistor in a 500 Hz bandwidth is $0.13 \times \sqrt{50} \times \sqrt{500}$ or 20.5 nV, or -140.6 dbm.

Notice these numbers are about 6 db different. This 6 db difference appears to present a testing problem for a very low noise receiver.

Suppose I had a receiver that was capable of measuring down to -147 dbm in a 500 Hz bandwidth. If that receiver were connected to an antenna and the band was dead quiet, I think the system noise of -146 dbm would be present and would limit the 3 db S+N/N to something in the neighborhood of -146 dbm.

If on the other hand, I take the same receiver, and connect it to a signal generator, that signal generator uses 50 resistive pads to reduce the signal strength, and the prevailing noise would be -140.6 dbm from the 50 ohms resistive pad. The best I could measure that receiver to be (using 3 db S+N/N) using the resistive pad method would be around -140.6 dbm.

I think this means that such a receiver (-147 dbm S+N/N capable) could pick up "on the air" signals which are 6 db weaker than the signal generator bench test would indicate.

If that is the case, then in order to measure such sensitivity on the bench, the last pad before the receiver may need to be non resistive. A pair of loops adjacent to each other spaced to give 20 db of attenuation from one to another might work, perhaps one leg of a directional coupler (also 20 db of isolation).

Is my line of reasoning correct here? Is the "on the air" signal reception actually better than the bench performance would indicate? What is the wisdom of the net?

- Dan Tayloe, N7VE; Phoenix, Az; Az ScQRPions

Date: Tue, 29 Aug 2000 12:23:06 -0400
From: Joe Mikuckis <k3chp@erols.com>
To: qrp-l@lehigh.edu
Subject: [78374] Re Lost Data?
Message-ID: <39ABE36A.B74@erols.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii

Content-Transfer-Encoding: 7bit

Thank you gentlemen for such an overwhelming response to my problem! I tried the DOS approach earlier and can install the files. Entering the dBASE.exe file does bring-up the dBASE window but at that point the computer "freezes." Anyway, thanks again; I'll try the "dBase for Windows" or the "Access" route.

Joe, K3CHP
Riverdale, MD

Date: Tue, 29 Aug 2000 16:51:01 -0400
From: Luke Stras <stras@ecf.toronto.edu>
To: qrp-l@lehigh.edu
Subject: [78375] Re: Antenna G/T
Message-ID: <20000829165101.A22952@arrow.utias.utoronto.ca>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Disposition: inline

On Tue, Aug 29, 2000 at 03:46:57PM -0400, Lau, Zack, W1VT wrote:
> No. As a very crude approximation, G/T tells you how much of
> your antenna pattern is pointed at noise sources, versus how much is
> aimed at the desired signal. You can't figure this out without

Of course, that's what I actually meant to say -- how can I figure out G/T given the antenna gain *pattern*, and sky and ground temperatures. I simply managed to omit that one crucial word... <g>

So the question is still open -- how do I do this?

Thanks to all.

--
Luke Stras <stras@utias.toronto.edu>
"The meek can have the Earth; the rest of us have other plans"
--Henry Spencer

Date: Tue, 29 Aug 2000 14:00:57 -0700
From: "Tom Scott" <TomRScott@Sterlink.net>
To: "'qrp-l Reflector'" <qrp-l@Lehigh.EDU>
Subject: [78376] FW: Digest: Source for 30m crystals...

Message-ID: <000101c011fc\$7ec45240\$7e100f0a@wyle.com>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Since several others asked me for this info, I thought one quick post
digesting the results might be in order. See below...

- Tom Scott, eEngineering Manager, eBusiness Group

//_/_/_/_/_/_/_/_/_/_/

Wyle Electronics

10300 SW Nimbus Ave #PB

Portland, OR 97223

503-603-1931 - Tel

503-684-6620 - Fax

503-703-2032 -- Cell

KD7DMH

//_/_/_/_/_/_/_/_/_/_/

Ocean States Electronics carries a few 30 meter frequencies.

See www.oselectronics.com/index.htm for details.

Their prices seem a little high, but when you can't find it anywhere else...

Best crystals I have ever bought came from International Crystal, in
Oklahoma City.

You might pay a bit more, but I think it's money well spent when it comes to
crystals.

This is kind of a tough one as these values are not readily available.

Order them from:

JAN Crystals

2341 Crystal Drive

Ft. Myers, FL 33906-6017

Phone (800) JAN-XTAL (526-9825)

See:

<http://www.arrl.org/cgi-bin/tisfind?case=on&patt=COMPONENT%3eCRYSTAL+MANUFAC>
TURER

For a listing of manufacturers and addresses.

Unless you can find group buys or surplus, your best bet is International
Crystal. They will probably be \$14 a piece, but they can provide them in
about 2 weeks. I have never seen common 30 meter freqs in crystals but I'm
sure they exist. I bought a custom crystal from them for a Sierra band
module that I built for 3.6 - 3.75 MHz. They are very good to do business
with.

Norcal carries some 30m crystals. I think 10.110 MHz.

Date: Mon, 28 Aug 2000 16:16:24 -0500
From: "TC Dufresne" <tdufres@radiks.net>
To: <qrp-1@Lehigh.EDU>
Subject: [78377] Update on QRP Homebrew
Message-ID: <007901c01135\$3979db00\$87f31dce@server>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Gang:

Just sent a QSL card to my first homebrew QRP contact. It was at 2045z, on 21.0575MHz, with Jack, K7ZR. About 2.5 watts output power, according to my MFJ 941E tuner, and all the way from Washington, no less! I am in Lincoln, Nebraska! Needless to say, I am still shaking with excitement. Was it like that for you guys too?

Sorry to sound like a total newbie, but you old guys, remember the time when you had your first contact on a rig you build from scratch and sweated about on your own... Well, the feeling is there. Thanks again to all that helped and hope I can work more of you!

72 ES TNX!

DE KCOGXX

Date: Tue, 29 Aug 2000 14:23:40 -0700
From: Bill Jones <kd7s@psnw.com>
To: tdufres@radiks.net
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [78378] Re: Update on QRP Homebrew
Message-ID: <39AC29DC.6FF40201@psnw.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

TC Dufresne wrote:

> Sorry to sound like a total newbie, but you old guys, remember the time when
> you had your first contact on a rig you build from scratch and sweated about
> on your own...

Boy, do I ever remember. It was in 1955, the rig was a 6AG7 driving a 6L6. The

guy on the other end was with Jim Larsen (SK), W7DZL, the man behind the Larsen line of antennas. Jim was my neighbor, my Elmer and my friend. I'll never forget him.

Treasure the moment, TC. You'll never have another like it.

Bill Jones - KD7S <><
Sanger, California
<http://www.psnw.com/~kd7s/>

Date: Tue, 29 Aug 2000 16:32:36 -0500
From: "George , W5YR" <w5yr@att.net>
To: tdufres@radiks.net
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [78379] Re: Update on QRP Homebrew
Message-ID: <39AC2BF4.BCD7FFF6@att.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Now you know why we do this foolishness! <:}

72/73, George W5YR - the Yellow Rose of Texas
Fairview, TX 30 mi NE Dallas in Collin county QRP-L 1373
Amateur Radio W5YR, in the 54th year and it just keeps getting better!
R/C since 1964 - AMA 98452 Rving since 1972 Kachina #91900556
(12/99)

TC Dufresne wrote:

Sorry to sound like a total newbie, but you old guys, remember the time when
> you had your first contact on a rig you build from scratch and sweated about
> on your own... Well, the feeling is there. Thanks again to all that helped
> and hope I can work more of you!

Date: Tue, 29 Aug 2000 17:35:32 -0400
From: Stephen Trier <sct@po.cwru.edu>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [78380] Re: Thermoelectric powered radio

Message-ID: <3.0.5.32.20000829173532.0094ddb0@rabbit.cwru.edu>

Mime-Version: 1.0

Content-Type: text/plain; charset="us-ascii"

I missed the original discussion of thermoelectric radio. Did anyone mention the article in Circuit Cellar INK about using surplus Peltier-junction devices to generate power for electronics? Peltier devices are basically stacks of thermocouples. They were popular for cooling 486 and Pentium processors and are widely available in the surplus market. They are more convenient than making thermocouples from scratch.

Here's the article reference:

Randy Heisch, "Thermoelectric Micropower Generation: An Alternative Power",
Circuit Cellar INK, 113, Dec. 1999, p. 30.

Followup correspondence appears in Circuit Cellar INK number 115, in the
"Reader I/O" section, according to the online index.

Stephen

--

Stephen Trier
Technical Development Lab
Cleveland FES Center
sct@po.cwru.edu / KG8IH

Date: Tue, 29 Aug 2000 17:44:27 -0400
From: "Ed Tanton" <n4xy@att.net>
To: "Antennas Reflector" <antennas@qth.net>
Cc: "QRP-L Reflector" <qrp-l@Lehigh.EDU>, "CW Reflector" <cw@qth.net>
Subject: [78381] New diagrams in PDF format on website
Message-ID: <CKEGICNFDIMCEKEDCEHFIECPDNAA.n4xy@att.net>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hi Folks... I have a couple of updates and a new drawing on the ANTENNAS
page of my website. My version of the UA1DZ Broadbanded Vertical, the
infamous coaxial DOUBLE BAZOOKA, and an Extended Double ZEPP. Check 'em out.

73 Ed Tanton <n4xy@arrl.net>

website: <http://www.qsl.net/n4xy/>

Date: Tue, 29 Aug 2000 14:45:42 -0700 (PDT)
From: Quinn Farnes <quinn_farnes@yahoo.com>
To: qrp-l@lehigh.edu
Subject: [78382] QRP-L and the natural life cycle of mailing lists.
Message-ID: <20000829214542.22325.qmail@web4104.mail.yahoo.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii

The natural life cycle of mailing lists.

Every list seems to go through the same cycle:

1. Initial enthusiasm (people introduce themselves, and gush a lot about how wonderful it is to find kindred souls).
2. Evangelism (people moan about how few folks are posting to the list, and brainstorm recruitment strategies).
3. Growth (more and more people join, more and more lengthy threads develop, occasional off-topic threads pop up).
4. Community (lots of threads, some more relevant than others; lots of information and advice is exchanged; experts help other experts as well as less experienced colleagues; friendships develop; people tease each other; newcomers are welcomed with generosity and patience; everyone -- newbie and expert alike -- feels comfortable asking questions, suggesting answers, and sharing opinions).
5. Discomfort with diversity (the number of messages increases dramatically; not every thread is fascinating to every reader; people start complaining about the signal-to-noise ratio; person 1 threatens to quit if *other* people don't limit discussion to person 1's pet topic; person 2 agrees with person 1; person 3 tells 1 & 2 to lighten up; more bandwidth is wasted complaining about off-topic threads than is used for the threads themselves; everyone gets annoyed).

6.

a. Smug complacency and stagnation (the purists flame everyone who asks an 'old' question or responds with humor to a serious post; newbies are rebuffed; traffic drops to a doze-producing level of a few minor issues; all interesting discussions happen by private email and are limited to a few participants; the purists spend lots of time self-righteously congratulating each other on keeping off-topic threads off the list).

-OR-

b. Maturity (a few people quit in a huff; the rest of the participants stay near stage 4, with stage 5 popping up briefly every few weeks; many people wear out their second or third 'delete' key, but the list lives contentedly ever after).

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This text was pulled from the archives of the list-managers discussion list and reproduced in full here (the author is unknown).

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Do You Yahoo!?

Yahoo! Mail - Free email you can access from anywhere!

<http://mail.yahoo.com/>

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Date: Tue, 29 Aug 2000 18:33:20 -0400  
From: "Chris W4YYZ" <w4yyz@tampabay.rr.com>  
To: <sct@po.cwru.edu>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>  
Subject: [78383] Re: Thermoelectric powered radio  
Message-ID: <00af01c01209\$259e2260\$16f5a118@screamer>  
MIME-Version: 1.0  
Content-Type: text/plain;  
        charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

> I missed the original discussion of thermoelectric radio. Did anyone  
> mention the article in Circuit Cellar INK about using surplus  
Peltier-junction  
> devices to generate power for electronics? Peltier devices are basically  
> stacks of thermocouples. They were popular for cooling 486 and Pentium

> processors and are widely available in the surplus market. They are more  
> convenient than making thermocouples from scratch.

Peltiers are TEC's, which are also Thermoelectric power generators. The difference is in the name. The cooling property is called the "Peltier effect" and the power generating property is called the "Seebeck Effect".

Peltiers are inefficient when cooling/heating, and even more so when used for power generation.

Very few peltiers were used for 486/Pentium-I processors and are being used now more than ever for CPU's. I use a 82Watt 70?dT Peltier in this computer that I'm on now and the CPU runs at about -10?C at full load (100% usage @1.2Ghz).

My guess is that you'll have to get one side hot and the other cold to produce much useable power.

-Chris

-----  
Date: Tue, 29 Aug 2000 18:43:52 -0400  
From: "John P. Cummins, Sr." <jpcummins@att.net>  
To: qrp-l Server <qrp-l@Lehigh.EDU>  
Subject: [78384] Need Heath Parts  
Message-ID: <39AC3CA8.4D6D9EA5@att.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

I am looking for a Heath HW-8 junker for parts.

Pickett, AD4S

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Date: Tue, 29 Aug 2000 15:52:45 -0700  
From: Tayloe Dan-P26412 <Dan.Tayloe@motorola.com>  
To: "QRPL (E-mail)" <qrp-l@lehigh.edu>  
Subject: [78385] Re: System noise and very low noise receiver testing  
Message-ID: <87568F78ABDCD211A0AC0008C707718B029D0FF6@az10exm03.sat.mot.com>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"

The short response I got was that the resistor noise was an "open circuit" RMS voltage. In the pad case, it is assumed the receiver represents a 50 ohm load to the 50 ohm pad, thus the delivered noise voltage to the receiver is 6 db less than the open circuit noise voltage (special thanks to Wes Hayward for that one!)

So -146 dbm (I guess it is actually -147) is the true noise number a 500 Hz wide receiver needs to work against.

However, the "open circuit" noise voltage of a resistor *is* important to an op-amp, since, unlike a receiver, it has a very high input impedance, allowing all the noise voltage to get delivered and amplified.

- Dan, N7VE

-----Original Message-----

From: Cla KA0GKC [mailto:ka0gkc@arrl.net]

Sent: Tuesday, August 29, 2000 2:08 PM

To: Dan.Tayloe

Subject: Re: System noise and very low noise receiver testing

Hi Dan,

Not being a real EE kind of guy I thought I might just send this to you privately as I'm probably wrong. Doesn't a matched antenna look just like an approximate 50 ohm resistor and then have the same noise? Assuming of course no additional loss from the feedline and matching network that would add to the noise. That said, what happens when you add a gain antenna like a Yagi? Doesn't that lower the noise floor due to the gain?

Of course there's nothing magical about 50 ohms either. Many receivers actually have higher input impedance's and this might effect their minimum noise level as well.

Like I said, I don't really know this stuff that well, but I do find the discussion fascinating.

73 de Cla KA0GKC

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Date: Tue, 29 Aug 2000 18:57:01 EDT

From: BenNW7DX@aol.com

To: qrp-l@lehigh.edu



Subject: [78386] Fox- First Ever FOX DUEL - NW7DX / WJ1R #17    You're Invited!  
Message-ID: <e.1a7d0fa.26dd99bd@aol.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset="US-ASCII"  
Content-Transfer-Encoding: 7bit

Well, Hello... Long time no see!  
This thursday at 0100z I will be in the fox suit again, only this time the suit will be shared with my buddy Larry WJ1R. This double-foxhunt thing is JUST LIKE a normal fox hunt, but there's two foxes battling it out instead of one! Watch out though, we may gang up on you when you're not looking. heh heh.

ANYWAY, I will be hanging out around 14.055-057 and Larry will be a bit above 14.060. I'm not sure if this message will be for both Larry and I, but here are some operating procedures that I like... When there is a pileup, call a bit above (or below) my frequency so as not to QRM me, while other hounds are listening for their call signs. When there is no pileup and you can tell that I'm in desperate need for a contact, go ahead and call me on my frequency. I'll promptly put you in the log!

Just as my hunt on Sunday, I will be varying my cw speed quite a bit. At the start of the hunt I will be on the "swift" side and when the pileup dies down, I will slow down a whole bunch. Also just like my Sunday hunt, I won't let the beam ever get cold :-) As you heard from a few hunters that posted on qrp-l, one minute I was barely audible and the next minute 599. If I'm not too strong at your QTH or you can't hear me at all, wait a bit and see what happens.

Just as a refresher, the exchange for the fox hunt is RST, QTH, NAME, and QRP-L# or PWR OUT. When you call me, I will come back to you with 559 WA BEN 1892 and I will put your callsign both before and after the exchange so hopefully you won't miss it.

I've noticed that towards the end of the season there have been some new hunters joining in, which is GREAT! I encourage everyone to get on and have a nab at the fox. Its lots of fun!

Well, hopefully the condx will be better than Sunday's and I will be able to work EVERYONE!

72 and Good Luck!,  
Ben - NW7DX  
Redmond, WA

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End of QRP-L Digest 1928

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